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# **COMPENDIOUS**

# SYSTEM

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# PRACTICAL SURVEYING,

AND

# **DIVIDING OF LAND:**

CONCISELY DEFINED,

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THE WHOLE

ADAPTED FOR THE EASY AND REGULAR INSTRUCTION OF YOUTH, IN OUR AMERICAN SCHOOLS.

COMPILED BY ZACHARIAH JESS.

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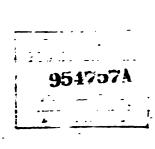
## PHILADELPHIA:

PUBLISHED BY JOHNSON AND WARNER.

AND FOR SALE AT THEIR BOOKSTORES IN PHILADELPHIA, AND RIGHMOND, (VIR.)

1814.

Withert Porter, Printer, Wilmington, Belaware,



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### District of Pennsylvania, to wit a

BE IT REMEMBERED, That on the Sixth day of November, in the Thirty-eighth Year of the Independence of the United States of America, A. D. 1813, JOHNSON & WARNER, of the said District, have deposited in this Office, the Title of a Book, the right whereof they claim as proprietors, in the words following, to wit:

"A Compendious System of Practical Surveying, and Dividing of Land: Concisely defined, methodically arranged, and fully exemplified. The whole adapted for the easy and regular instruction of Youth in our American Schools. Compiled by Zachariah Jess. Second Edition Improved."

In Conformity to the Act of the Congress of the United States, intituled, "An Act for the Encouragement of Learning, by securing the Copies of Maps, Charts and Books, to the Authors and Proprietors of such Copies during the Times therein mentioned."—And also to the Act, entitled, "An Act supplementary to An Act, entitled "An Act for the Encouragement of Learning, by securing the Copies of Maps, Charts, and Books, to the Authors and Proprietors of such Copies during the Times therein mentioned," and extending the Benefits thereof to the Arts of designing, engraving, and etching historical and other Prints."

D. CALDWELL, Clerk of the District of Pennsylvania.

# PREFACE.

AS the Treatises heretofore published on surveying, are deficient in examples, whilst they treat largely on the theory; the design of this publication, is, to supply schools with a system, exemplified with practical illustrations, sufficient to give the learner a competent knowledge of this useful science.

To avoid swelling the work, and increasing the price, I have omitted giving a description of the instruments used in surveying; as they are better understood by inspection, with a little instruction from the teacher, than by any description given of them.

I have chosen a short, mechanical method of explaining and exhibiting to view, the dependencies and proportional properties of triangles, in order to meet the ideas of the learner, in the most easy and simple manner.—This I have found to be more useful to them, than any thing I have before seen.

I have not enlarged on the geometrical method of determining the Area of Maps, as it is not to be depended on; for although it may appear true, upon demonstrable principles, I have found by experience, that as many different ways as a map is marked into triangles and trapeziums, so many different areas it will generally give; but I have inserted a sufficient number of examples to show the method, which may answer some purposes: such, as for instance, a man to determine, nearly, the quantity of land in his own fields; and these I have done in perches, and tenths, as coming nearest to the truth—and the larger the scale the better.

The calculations by difference of latitude and departure, are generally made in chains and links, as being more easy and accurate, than in perches, and tenths—nevertheless, for the sake of some variety, and advantage of those who prefer the latter, I have given some examples calculated in perches, and tenths; and it will evidently appear, by inspection, that the numbers to be multiplied, are larger; and as it is customary, in this method, to reject the second decimal figure, it cannot be so accurate—one tenth of a perch square, being equal to  $6\frac{1}{4}$  square links.

The method of bringing chains into perches, is very easy: four perches being one chain; therefore, multiply the chains by 4, and the product will be perches, and the contrary.

#### EXAMPLES.

1. In 37.56 chains, how many perches?

 $37.56 \times 4 = 150.24$  perches. The answer.

### PREFACE.

2. In 150.24 perches, how many chains?

150.24 ÷ 4 = 37.56 chains. The answer.

Note. These two examples prove each other.

Perhaps some may object to the uniform mode I have adopted, in finding the meridian distances. I know that some use other methods; but I apprehend there is none more easy, than the one I have chosen. And, as I have found by experience, that a variety of methods, to produce the same effect, contribute more to confuse, than instruct the learner, I have adhered to the one general mode.

Z. JESS.

The present edition of this work has been much improved, with additions made by T. Hamilton of Philadelphia; and the whole carefully examined and corrected by S. Hilles of Wilmington.

THE PUBLISHERS.

1st mo. 1814.







# SIGNS USED IN THIS WORK.

```
Degrees,
                     Minutes,
                     An Angle,
                     More; or, Addition,
                     Multiplication,
                     Equal to,
                     Division,
                     Less; Subtraction,
    Δ Stands for Sine,
                     A Triangle,
 Co-S.
                     Co-sine,
    T.
                     Tangent,
 Co-T.
                     Co-Tangent,
  Sec.
                     Secant,
Co-sec.
                     Co-Secant,
                    Proportion; as 2 .. 4 :: 3 .. 6
.. :: ..
                     Square-Root.
```



THE

# **PRINCIPLES**

OF.

# SURVEYING.

# SURVEYING.

SURVEYING is the art of delineating and calculating the content of land, in acres, roods and perches, and consists in a knowledge of geometrical definitions and problems.

### GEOMETRY.

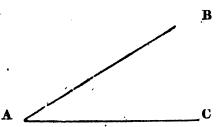
GEOMETRY is the science wherein we consider the properties of magnitude.

## GEOMETRICAL DEFINITIONS

#### USEFUL IN SURVEYING.

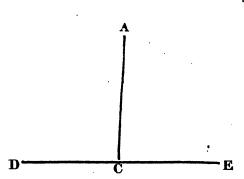
- 1. A Point is the smallest space that can be assigned, as at A.
- 2. A Line is the nearest distance between two points, and is considered without breadth or thickness, as A.—B.
- s. Lines equally distant from each other, and in all their parts, are called parallel lines, as C—B

  AB and CD.
- 4. The inclination, or opening, between two lines, which intersect in a point, is called an Angle, as the opening between the lines AB and AC; the angle is generally represented by three letters, thus BAC, the middle letter being at the angular point, or place of intersection, which is always considered to be the centre of a circle.



5. When one line stands on another, so as to include neither way, it is a perpendicular, as the line AC, on the

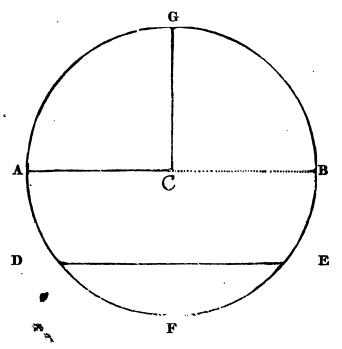
line DE, and the angles on each side of the perpendicular, are right angles.



- 6. A Circle is any distance taken in the compasses, with one point fixed, and the other carried round, and the line described thereby, is called the circumference.
- 7. The Diameter of a circle is a line which divides it into two equal parts, as AB.
- 8. The Radius of a circle is the distance taken in the compasses to describe it, and is half the diameter, as AC.
- 9. A Semicircle is either segment of the circle, made by the diameter, as AGB, or AFB.
- 10. A Quadrant is half a semicircle, and is contained between half the diameter, and a line perpendicular thereto, drawn from the centre of the circle, as CG.

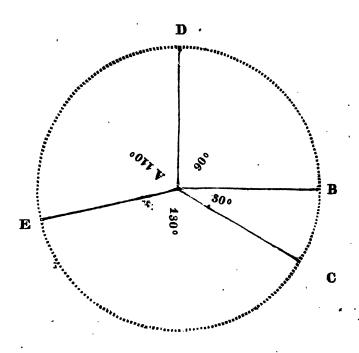
## GEOMETRICAL DEFINITIONS.

11. A Chord of a circle is a line which divides the circle into two unequal parts, as DE, and it is a chord to both segments of the circle, as DFE and DGE.



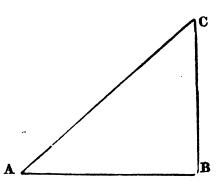
- . 12. A Circle is actually, or supposed to be divided into 360 equal parts, called Degrees, and each degree into 60 equal parts, called Minutes; and these into seconds, &c.
- 13. An Angle is so many degrees, as lines drawn from the centre of a circle, include those parts of the circle, thus BAC is an angle of 30 degrees; because the lines, AB and AC, drawn from the centre of the circle, include 30 parts of 360, and it is called an acute angle, because

it is less than 90 degrees, and BAD contains 90 of those parts, and is therefore an angle of 90°, and is called a right angle, because AD is perpendicular to AB, and DAE contains 110 of those parts, and is an angle of 110 degrees, and is called an obtuse angle, because it is greater than a right angle; consequently CAE must be 130° and an obtuse angle.

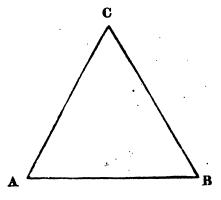


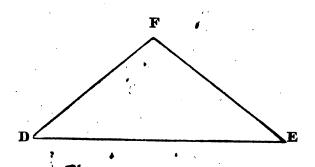
14. A Superfices is a plain, bounded by any number of lines; but the fewest number which can inclose a superfices, are three, and it is called a triangle, as ABC, and it is a right angled triangle, because it has one right angle,

and the side AC opposite the right angle, is called the hypothenuse, and is always the longest; the other two are called the legs; the upright one BC the perpendicular, and the other, AB, the base.

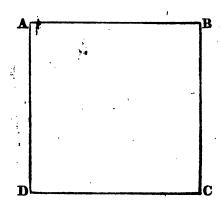


15. All triangles which have not one right angle, are called oblique angled triangles, whether all the angles be acute, as ABC, or one angle obtuse, as DEF.



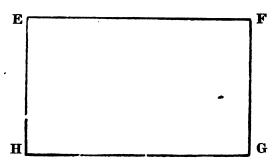


16. Any figure of four sides, is called a quadrilateral figure; and if the opposite sides be parallel, it is called a parallelogram; and if all the sides be equal, and angles right, it is called a square, as ABCD.

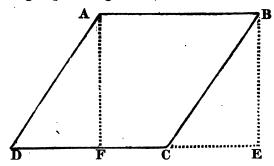


17. A parallelogram, whose opposite sides are equal, and angles right, is called an Oblong, as EFGH.

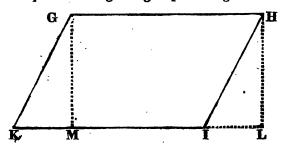
## GEOMETRICAL DEFINITIONS.



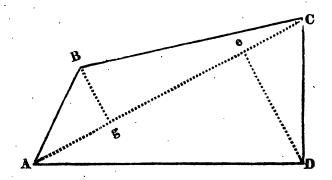
18. A parallelogram of equal sides, and angles oblique, is called a Rhombus, as ABCD, and it is equal to the right angled parallelogram ABEF.



19. A parallelogram whose opposite sides are equal, and angles oblique, is called a Rhomboides, as GHIK, and it is equal to the right angled parallelogram GHLM.



20. Any quadrilateral figure, that is not a parallelogram, is called a Trapezium, as ABCD, and is equal to the two triangles made by the base AC, and perpendiculars De and Bg.

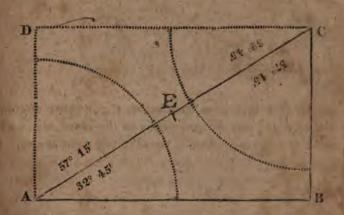


- 21. The complement of an angle, is what it wants of 90 degrees.
- 22. The supplement of an angle, is what it wants of 180 degrees.
- 23. The angles, in every triangle, are equal to two right angles, or 180 degrees.

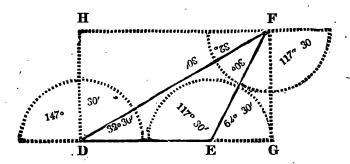
# GEOMETRICAL POSITIONS.

- 1. THE angles in every four sided figure, whether it be right, or oblique angled, are equal to four right angles, as by inspecting the preceding figures may plainly appear.
- 2. Every triangle is equal to half a right angled parallelogram, made on the base, and with the perpendicular height of the triangle; thus, the triangle ABC, is equal to half the parallelogram ABCD; and the line AC, is a hypothenuse to the two equal right angled triangles, ABC and ADC, and it divides the two right angles, viz. A and C, each into two angles; and if the hypothenuse AC, be bisected in the point E, then each end, viz. AE and CE, will be, in all their similar parts, equidistant from the bases AB and CD, and from the perpendiculars AD and BC, and as by definition 4th, the angular point is always considered to be the centre of a circle; and by definition 13th. an angle is so many degrees as the lines drawn from the centre, contain parts of 360, the degrees in a circle; therefore the angles ACB and CAD, are equal, and also the angles CAB and ACD are equal; it is therefore evidently clear, that if either of these angles be subtracted from 90 degrees, the remainder will be the opposite angle, both on the same, and opposite sides of the hypothenuse; therefore, in every right angled trian-

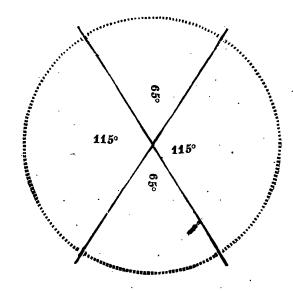
gle, if one acute angle be given, subtract it from 90 degrees, the remainder will be the other acute angle.



3. The oblique angled triangle DEF, is equal to half the right angled parallelogram DGFH, and each angle is the supplement of two right angles, or 180 degrees; for a semicircle, or half a circle is equal to 180 degrees, and it is evidently clear, by inspection, that if the inward and outward angles, at each angular point of the triangle, be added together, they will make 180 degrees; therefore, in every oblique angled triangle, the sum of the three angles will be 180 degrees; and if either angle be taken from 180 degrees, the remainder will be the sum of the other two angles; and if the sum of either of the two angles be taken from 180, the remainder will be the other angle: all which will evidently appear by inspecting the following figure.

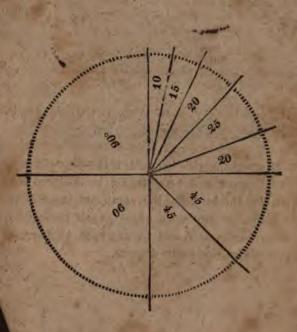


4. If two lines cross each other, the opposite angles will be equal, and the two angles on the same side, will make 180 degrees, which is equal to two right angles.

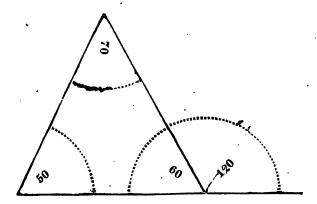


5. All the angles that can be made from any one point, on the same side of a line, are equal to two right angles,

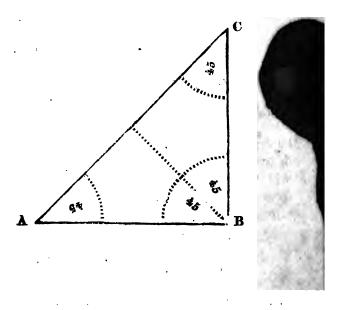
or 180 degrees; and those on both sides of the line, from the same point, will be equal to four right angles, or 360 degrees.



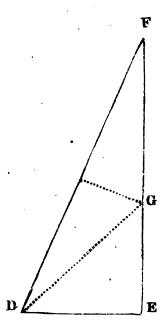
In every triangle, if one side be continued in the same direction, the outward angle will be as much above 90 degrees, as the adjoining inward angle is less than 90 degrees, and equal to both the other inward angles, which will more clearly appear, by inspecting the following figure, and that in position 3d. than by long demonstrations.



7. In a right angled triangle, if the base and perpendicular be equal, and hypothenuse be bisected at right angles, and the bisecting line continued, it will divide the right angle into two equal angles, each 45 degrees, and the acute angles at A and C, are each 45 degrees, and the four angles make 180 degrees.



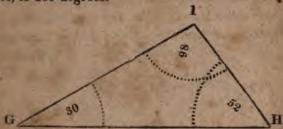
8. In a right angled triangle, as DEF, if the perpendicular be longer than the base, and the hypothenuse be bisected at right angles, the bisecting line will intersect the perpendicular, so that the upper end (cut off by this bisecting line) will exactly reach from the place of intersection, as at G, to the extreme end of the base, as to D; thus the lines DG and FG, are equal in length, and because the base DE, and perpendicular FE, are unequal in length, the acute angles at D and F are unequal, and the greatest angle will always be opposite the longest side. And as DG and FG are equal, the angles GDF and FDG are equal, by position 7th.



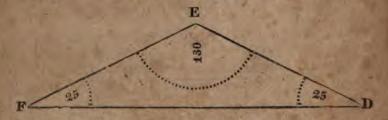
9. In an oblique angled triangle, as ABC, if all the sides be equal in length, the angles will be equal in quantity, and each 60 degrees, making in the whole 180 degrees, as in the opposite figure.



10. If the sides of a triangle be unequal in length, as GHI, the angles will be unequal in quantity, and the greatest angle will be opposite the longest side, and the least angle opposite the shortest side, as in the following figure; the three angles taken together, making two right angles, or 180 degrees.



11. If two sides of a triangle be equal in length, as sides DE and FE, in the following figure, are equal, then the angles opposite these equal sides, will be equal, viz. the angles at D and F, are equal to each other.



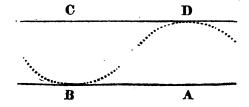
# GEOMETRICAL PROBLEMS.

### PROBLEM I.

TO draw a line parallel to a given line AB, at any distance, as at C.

### RULE.

Take, with a pair of compasses, the nearest distance between the point C, and the line AB, and with that distance, and one foot of the compasses in the line AB, as at A, describe an arch, as at D; then from the point C, draw a line to touch the arch at D, and it is done.

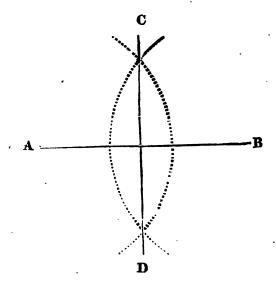


# PROBLEM II.

To bisect, or divide a line into two equal parts.

## RULE.

With any distance in the compasses, greater than half the given line AB, and one foot of the compasses in A, describe the arch CD; with the same distance, and one foot in B, cross the former arch in C and D, draw the line CD, and it is done.

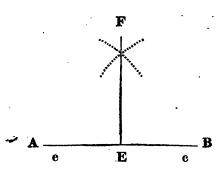


PROBLEM III.

To raise a perpendicular on a given line, as AB, from the point E.

# RULE.

With any convenient distance in the compasses, and one foot in E, make a point on each side, as at e and e; then open the compasses wider, and with one foot in e, describe an arch, as at F; then with the same extent, and one foot in e, intersect the former arch at F, draw EF, and it is done.

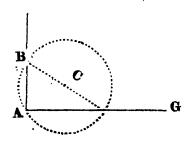


PROBLEM IV.

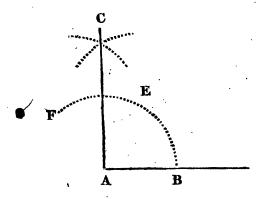
To erect a perpendicular, on the end of a given line, as AG.

# RULE.

With any distance, as from A to C, in the compasses, and one foot in C, describe a circle, so as to touch the end of the given line in A; from where that cuts the given line, and through the centre C, draw a line to cut the circle, as in B; from B, draw the line AB, which will be the perpendicular required.



Or, With any convenient distance in the compasses, and one foot in the end of the line, describe an arch as FB, set off the same distance from B to E, with one foot in E, describe an arch at C, and with the same distance, turn one foot over to F, and describe an arch to cut the former in C; from C to A, draw a line, and it is done.

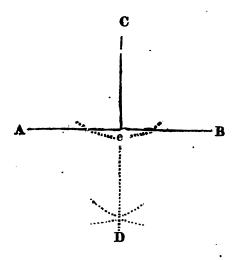


# PROBLEM V.

From a point, as at C, to let fall a perpendicular on the line AB.

#### RULE.

With one foot in C, describe an arch to cut the given line AB; with one foot in each place of intersection, describe arches at D, and from C to D, draw a line, and it is done; for C e is perpendicular to AB, as was required.

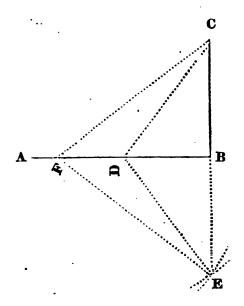


#### PROBLEM VI.

From a given point C, to let fall a perpendicular on the ond of a given line AB, at B.

# RULE.

From any point in the line, as at F, with the distance FC, describe an arch at E; choose any other point in the line, as at D, and with the distance DC, intersect the former arch in E; join CE, and it is done as required.



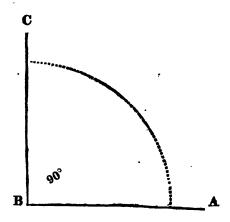
# PROBLEM VII.

To make a right angle at B, on the line BA.

# RULE.

Erect the perpendicular BC, and it is done.

Or, On the point B, and with the chord of 60 degrees in the compasses, describe an arch, on which set off 90 degrees from the line BA to C; then draw BC, and it is done.

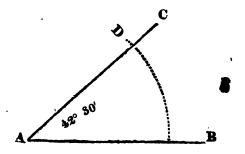


PROBLEM VIII.

To make an angle equal to any number of degrees, suppose 42° 30'.

# RULE.

With the chord of 60 degrees in the compasses, on A describe an arch from the line AB, and from that line lay 42° 30' on the arch to D; then through the point D, draw AC, and it is done.



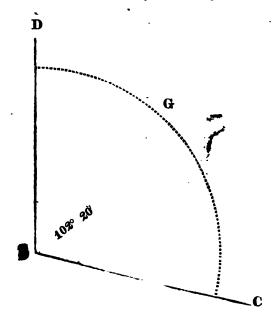
Note. To measure an angle, take the chord of 60° in the compasses, and with one foot in the angular point, make an arch from line to line; then take the arch in the compasses, apply it to the chord, which will shew the degrees; thus the preceding angle will measure 42° 30°.

# PROBLEM IX.

To make an obtuse angle, equal to 102° 20.

# RULE.

With the chord of 60 degrees in the compasses, on B describe an arch, on which from C, set off 60 degrees to G, and from G, 42° 20' to D; draw BD, and it is done.



# PROBLEM X.

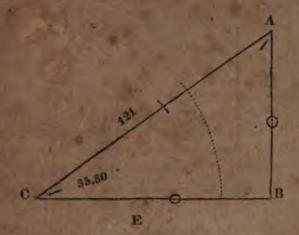
The angles and hypothenuse given, to find the legs.

### EXAMPLE.

The hypothenuse 121 perches, the angle opposite the base 54° 30'; consequently the other angle 35° 30' by position 2d. page 10; the base and perpendicular are required.

# RULE.

Draw the line CB, and on C, by Problem 8, make an angle equal to 35° 30′, draw CA; take 121 perches in the compasses, from a scale of equal parts, and set it from C to A; then (by Problem 5) from A let fall the perpendicular AB; then the perpendicular AB, being taken in the compasses, and measured on the same scale, will be 70.25 perches, and the base CB, 98.5 perches, as required.



#### PROBLEM XI.

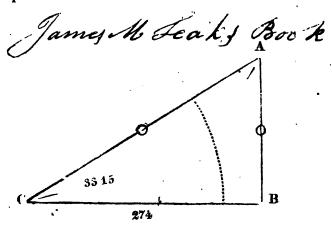
The angles, and one leg given, to find the hypothenuse, and the other leg.

#### EXAMPLE.

The angle opposite the perpendicular 33° 15'; the base 274 perches, to find the hypothenuse, and perpendicular.

#### RULE.

Draw CB, equal to 274 perches, from a scale of equal parts; upon B, erect a perpendicular, by Problem 3; and on C, make an angle equal to 33° 15' by Problem 8; draw CA, and where it intersects the perpendicular, will be its length; then the hypothenuse CA, measured on the same scale, will be 327.6, and the perpendicular BC, 179.6 perches.



James M Leake

# PROBLEM XII.

The hypothenuse, and one leg given, to find the angles, and the other leg.

### EXAMPLE.

The perpendicular 69 chains, hypothenuse 150 chains; the base and angles are required.

#### RULE.

Draw the base, and on B erect a perpendicular to A, equal to 69, from a scale of equal parts; from the same scale, take 150 in the compasses, and with one foot in A, let the other fall on the base, as at C; then the base, taken in the compasses, and applied to the same scale, will be 133, and the angle ACB, measured on the chord of 60 degrees, (by the note to Problem 8) will be 27° 23'; consequently the other angle 62° 37', by position 2, page 10.



# PROBLEM XIII.

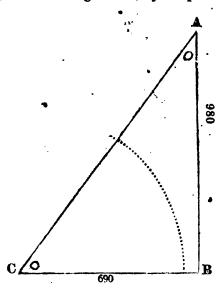
The legs given, to find the angles and hypothenuse.

#### EXAMPLE.

The perpendicular 980 perches, the base 690 perches; the angles and hypothenuse are required.

# RULE.

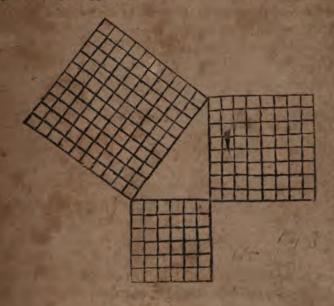
Draw the base equal to 690, and the perpendicular equal to 980 perches, from a scale of equal parts; then from the extremities of the base and perpendicular, draw the hypothenuse AC, which being measured on the same scale, will be 1198 perches,\* and the angle at C, measured on a chord of 60°, (by note to Problem 8) will be 54° 51'; the other angle 35° 9', by the position 2d.



Note. Two sides of a right angled triangle being given, the third may be found by the square root in arithmetic, or extracted by the logaeithms as herea.

The sum of the squares of the base and perpendicular, is equal to the square of the hypothenuse; and the difference between the squares of the base and hypothenuse, is the square of the perpendicular: and that between the perpendicular and hypothenuse, is the square of the base: thus, in the preceding example, the square of 690, the base is 476100; and the square of 980, the perpendicular is 960400: their sum is 1436500, the square of the hypothenuse, the square root of which is 1198, the length of the hypothenuse while same measure that the base and perpendicular are.

Again: If rec. 436500, the squre of the hypothenuse, be taken 476100, the square of the base, there remains 960400, the square of the perpendicular, its square root is 980, the length of the perpendicular; and from the square of the hypothenuse, take the square of the perpendicular, the remainder is 476100, its square root is 690, the length of the base, which is exemplified in the following example, where the base is 6, perpendicular 8, and hypothenuse 10.



# PROBLEM XIV.

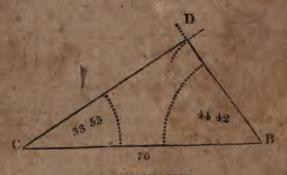
The angles, and one side of an oblique angled triangle given, to find the other sides.

#### EXAMPLE.

The angle BDC 101° 25′, CBD 44° 42′; consequently the other angle 33° 50′ (by position 3, p 1) and the leg BC 76 perches, to find the sides CD a 100.

# RULE.

Draw BC equal to 76 perches; on B make an angle equal to 44° 42′, and on C an angle equal to 33° 53′; the place of intersection will determine the point D; then BD being measured on the same scale, will be 13.2, and DC 54.5 perches, as required.



# PROBLEM XV.

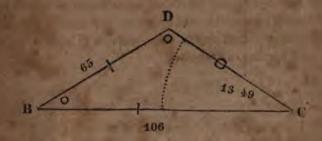
Two sides, and an angle opposite to one of them given, to find the other opposite angle, and third side.

### EXAMPLE.

The side BC 106 chains, BD 65 chains, and the angle at C 31° 49', to find the angle at D, and side CD.

#### RULE.

Draw the line BC, equal to 106 chains, from a scale of equal parts; make an angle on C, equal to \$1° 49'; take 65 chains in the compasses, and with one foot in B, lay the other on the line CD in D; then the angle B, being measured on the chord of 60 degrees, will be 27° 28', consequently the other angle 120° 43' (by position 3, page 11) and the side DC 56.9 chains, on the scale of equal parts.



#### PROBLEM XVI.

Two sides, and their contained angle given, to find the other angles, and third side.

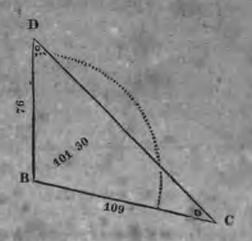
### EXAMPLE.

The side BC 109, BD 76, and angle CBD 101° 86' given, to find the other angles, and side CD.



# RULE.

Draw the line CB, equal to 109 chains or perches; BD 76, from a scale of equal parts, making an angle on B, equal to 101° 30'; join DC, and apply it to the same scale of equal parts, and it will be 144.8, and the angle at D, measured on a chord of 60 degrees, will be 47° \$2, and the angle on C, 30° 58', as required.



# PROBLEM XVII.

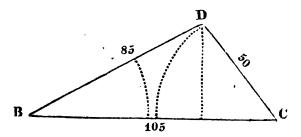
The three sides given, to find the angles,

# EXAMPLE.

The sides BC 105, BD 85, and CD 50 chains or perches, to find the angles at B, C and D.

#### RULE.

Draw the line BC, equal to 105, from a scale of equal parts; take CD, 50 in the compasses, and with one foot on C, describe an arch at D; then take BD, 85, in the compasses, and with one foot on B, intersect the arch at D, join BD and CD; then the angle at B, being measured on a chord of 60 degrees, will be 28° 4′, and at C 58° 7′; consequently the angle at D, 98° 49′, by position 3.

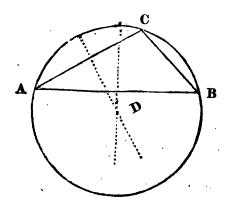


#### PROBLEM XVIII.

To describe a circle about a triangle ABC, or through any three points not in a direct line.

#### RULE.

Bisect any two of the triangle's sides, at right angles, and where the bisecting lines intersect, is the centre of the circle, as at D, the distance from which, to one point of the triangle, and carried round, will be the circle required.

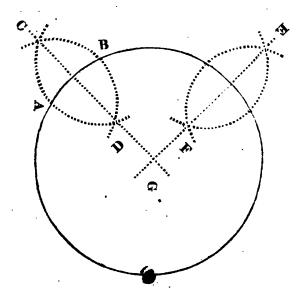


# PROBLEM XIX.

To find the centre of a circle.

# RULE.

With any radius, and one foot in the circle, as at A, describe an arch, as CBD; then with the same radius, and where the arch cuts the circle, describe another arch, as CAD, and through the points of intersection, draw the line CDG; in like manner draw another line as EFG, which will intersect the other line in the centre of the circle; for each of these lines, if continued, will be a diameter to the circle.



# PROBLEM XX.

To make a right angled parallelogram, whether a square, or an oblong.

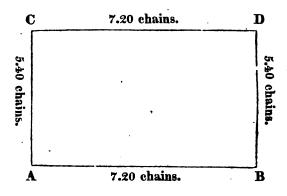
# EXAMPLE.

The sides AB and CD, each 7 chains 20 links; the perpendiculars AC and BD, each 5 chains 40 links.

# RULE.

Draw AB equal to 7.2 chains, from a scale of equal parts; on B erect a perpendicular equal to 5.4 chains; then with AB in the compasses, and one foot on D, de-

scribe an arch at C, and with BD in the compasses, with one foot on A, intersect the former arch at C; join CA and CD, and it is done.



PROBEM XXI.

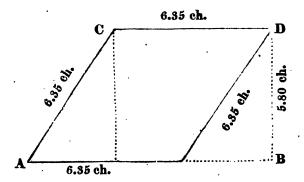
To make a Rhombus.

#### EXAMPLE.

Let each side of the Rhombus be 6 chains, 35 links, and perpendicular height 5 chains, 80 links.

### RULE.

Draw AB and CD parallel, at the distance of 5 chains, 30 links; then take 6.35 chains in the compasses, lay it from C to D, with one foot in D; let the other fall in the line AB at B; turn over to A, join the several corners by lines, as in the figure, and it is done.



# PROBLEM XXII.

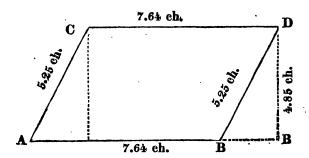
To make a Rhomboides.

#### EXAMPLE.

Let the lines AB and CD, be each 7 chains, 64 links; AC and BD, each 5 chains, 25 links; perpendicular height 4.85 chains.

#### RULE.

Draw AB and CD, parallel, at the distance of 4.85 chains; take 7.64 chains in the compasses, and set it from C to D; take 5.25 chains in the compasses, and lay it from D to B; make BA equal to CD; join the several corners by lines, as in the figure, and it is done.



# PROBLEM XXIII.

To make a Trapezium.

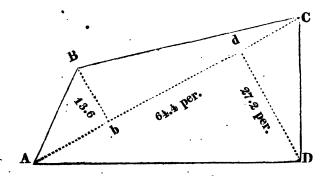
#### EXAMPLE.

Let ABCD be the boundary lines; the base AC 64.4 perches; the perpendicular Bb 13.6, and Dd 27.2 perches; the first perpendicular from A 18 perches, the 2d from C 14 perches.

#### RULE.

Draw AC equal to 64.4 perches: then 18 perches from A, raise a perpendicular equal to 13.6 perches; and 14 perches from C, raise a perpendicular equal to 27.2 perches, on the opposite side of the base AC; join the several boundary lines, as in the figure, and it is done.

, 1 ca.



PROBLEM XXIV.

To divide a given line, as AB, into any number of equal parts, suppose 7.

# RULE.

From the point A, draw the line AC, making any angle with the line AB, and from the point B, draw BD, parallel to AC; then with any convenient distance in the compasses, on the lines AC and BD, and from the angular points, turn over on each as many times, less one, than the divisions; join the several points, and the line is divided as proposed.



# PROJECTION

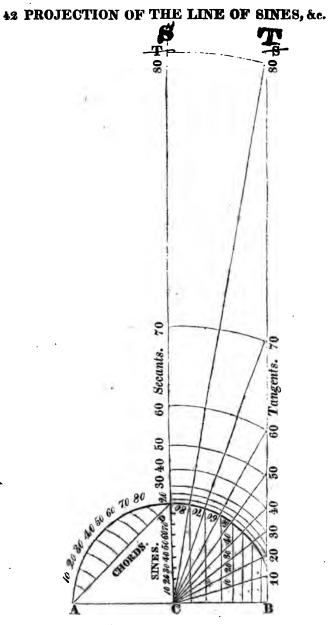
# OF THE LINES OF SINES, TANGENTS, AND SECANTS,

#### ON THE PLANE SCALE.

- 1. WITH any convenient radius, describe a semicircle ADBC, and upon the centre C, raise the perpendicular CD, which will divide the semicircle into two quadrants AD, BD; continue CD to S: and upon B raise the perpendicular BT; then draw the lines BD and AD.
- 2. Sivide the quadrant BD, into 9 equal parts; then will each of these be 10 degrees, which may be subdivided into single degrees and minutes, if the radius be large enough to admit.
- 3. Set one foot of the compasses in B, and transfer each of the divisions in the quadrant BD, to the right line BD; then is BD a line of chords.
- 4. From the points 10, 20, 30, &c. in the quadrant BD, draw lines parallel to CD, till they cut the radius CB; then is the line CB, divided into a line of Sines.

# PROJECTION OF THE LINE OF SINES, &c. 4

- 5. From the centre C, through the several divisions of the quadrant BD, draw lines till they cut the tangent BT; so will the line BT become a line of tangents.
- 6. Set one foot of the compasses in C, extend the other to the several divisions 10, 20, 30, &c. in the tangent line BT, and transfer these extents, severally, into the lines CS; then will the line CS be a line of secants.
- 7. Right lines drawn from A to the several divisions 10, 20, 30, &c. in the quadrant BD, will divide the radius CD into a line of sines.
- 8. Divide the quadrant AD, into 9 equal parts; and from A transfer these divisions, severally, into the line AD; then is AD a line of chords.



# GUNTER'S SCALE.

WHILE the reader is perusing the following, it will be proper to have a Gunter's Scale before him.

Gunter's Scale has on it these several lines, viz.

- 1. Sine Rhumbs, marked S. R. is a line which contains the logarithms of the natural sine of every point and quarter point of the Mariner's Compass, figured from the left hand toward the right, with 1, 2, 3, 4, 5, 6, 7, to 8, where is a brass pin; and, where it can be done, these are divided into halves and quarters.
- 2. Tangent Rhumbs, marked T. R. also corresponds to the logarithm of the tangent to every degree of the said compass, and is figured 1, 2, 3, 4, at the centre, where there is a pin; and from thence, toward the left hand, with 5, 6, 7: it is also divided, where it can be done, into halves and quarters.
- 3. The Line of Numbers, marked Num, contains the logarithms of the numbers, and is figured thus: near the left hand it begins at 1, and towards the right hand is 2, 3, 4, 5, 6, 7, 8, 9; and then 1 is the middle, at which

is a brass centre pin, going still on 2, 3, 4, 5, 6, 7, 8, 9, and 10 at the end, where there is another centre pin; the first one may be counted for 1, or 10, or 100, or 1000; and then the next 2 is accordingly 2, or 20, or 200, or 2000, &c.

Again; the first 1 may be reckoned 1 tenth, or 1 hundredth, or 1 thousandth part, &c. then the next 2 is 2 tenths, or 2 hundredths, or 2 thousandth parts, &c. so that if the first 1 be esteemed 1, the middle 1 is then 10, and 2 to its right is 20; 3 is 30; 4 is 40; and 10 at the end is 100.

Again; if the first one be 10, the next 2 is 20; 3 is 30, and so on, making the middle 1 now 100; the next 2 is 200; 3 is 300; 4 is 400, &c. and 10 at the end is now 1000. In like manner, if the first 1 be esteemed 1 tenth part, the next 2 is 2 tenth parts; and the middle 1 is 1, and the next 2 is 2, and 10 at the end is now 10.

Again; if the first 1 be counted 1 hundreth part, the next 2 is 2 hundredth parts; the middle 1 is now 10 hundredth parts, or one tenth part; and the next 2 is 2 tenth parts; and 10 at the end is now but one whole number, or integer.

As the figures are increased or diminished in their value, so in like manner must all the intermediate strokes or subdivisions be increased or diminished; that is, if the first a be counted 4, then 2 on the right of it is 2, and each subdivision between them now is one tenth part, and mall the way to the middle 4, which now is 10, the next 2 is 20; now the longer strokes between one and 2 are to be counted thus, 11, 12, where is a brass pin; then 13, 14, 15; sometimes a longer stroke than the rest, 16, 17, 18, 19, 20, at the figure 2; and all the shorter strokes between the longer, are now each to be counted two tenth parts from the middle 1 to the next 2, now 20; from whence the longer strokes between the figures are units, thus, 21, 22, 23, &c. to 3, which now is 30, and the shorter strokes each between them, now is one tenth part of an integer; from 3, each short stroke or division, is one tenth part of an unit.

Again; if 1 at the left hand be 10, the figures between it and the middle 1 are common tens; and the subdivisions between each figure are units: from the middle 1 to 10 at the end, each figure is so many hundredths; and between these figures, each longer division is 10; from the middle 1 to 2, each less division is 2 units; and from 2 to the end, each shorter division is 5 units.

From this description, it will be easy to find the divisions representing any given number, thus: suppose the point representing 12 is required? Take the division at the figure 1, in the middle for the first figure of 12; then for the second figure, count 2 tenths, or longer strokes, to the right hand, and this last is the point representing 12, where is a brass pin.

Again; suppose the number 22 is required? The first figure being 2, take the division to the figure 2, and for the second figure 2, count 2 tenths onwards, and that is the point representing 22.

Again; suppose 1728 is required? For the figure 1, take the middle 1; for the second figure 7, count onwards as before, and that is 1700; then for the third figure 2, count 2 tenths from the last, and it represents 1720; lastly, for the fourth figure 8, estimate 8 parts out of 10 of the next smaller division, this point represents 1728.

Required the point representing the number 455? From 4 in the second interval, count towards 5 on the right hand, three of the large divisions, and one of the smaller, and that will be the division expressing 455, and the like of other numbers.

All fractions in this line must be decimals; and if they be not, they must be reduced into decimals, which is easily done by extending the compasses from the denominator to the numerator; that extent will reach from 1 in the middle to the decimal required.

#### EXAMPLE.

Required the decimal fraction equal to 3?

Extend from 4 to 3; that extent will reach from 1 in the middle to 75, = .75, the decimal required, towards the left hand; and so of any other vulgar fraction.

# MULTIPLICATION,

Is performed on this line, by extending from 1 to the multiplier; that extent will reach from the multiplicand to the product.

Suppose it is required to multiply 16 by 4?

Extend from 1 to 4; that extent will reach from 16 to 64, the product.

# DIVISION,

Being the reverse of Multiplication; therefore extend from the divisor to 1; that extent will reach from the dividend to the quotient.

Required to divide 64 by 4?

Extend from 4 to 1; that extent will reach from 64 to 16, the quotient.

# PROPORTION, OR THE RULE OF THREE,

Being performed by Multiplication and Division, therefore extend from the first term to the third; that extent will reach from the second to the fourth.

#### EXAMPLE.

If the diameter of a circle be 7 inches, and the circumference 22; what is the circumference of another circle, the diameter of which is 14 inches?

Extend from 7 to 14; that extent will reach from 22 to 44, the circumference required.

In like manner, may any other proportion be worked.

To find the superficial content of a board, plank, &c.

Extend from 1 to the breadth; that extent will reach from the length to the superficial content.

# EXAMPLE.

Suppose a board or plank 15 inches broad, and 27 feet long; required the content?

Extend from 1 to 1 foot 3 inches; that extent will reach from 27 feet to \$3.75 feet, the superficial content.

Or, Extend from 12 inches to 15 inches, &c.

The solid content is found by extending from 1 to the breadth; that extent will reach from 1 to a 4th number; and from 1 to that 4th number, will reach from the length to the solid content.

# EXAMPLE I.

What is the content of a square pillar, 21 feet 9 inches long, 1 foot 3 inches broad on each side?

The extent from 1 to 1.25, will reach from 1.25 to 1,56, the content of 1 foot long. Again; the extent

from 1 to 1.56, will reach from the length 21.75 to 33.98, or 34 feet solid.

# EXAMPLE II.

Suppose a piece of timber 1.25 feet broad, .56 feet deep, and 36 feet long; required the content.

Extend from 1 to 1.25, that extent will reach from .56 to .7; then extend from 1 to .7, that extent will reach from 36 to 25.2 feet, the solid content.

The line of Sines, marked Sin. begins at the left hand, and is figured thus: 1, 2, 3, 4, 5, &c. to 10; then 20, 30, 40, &c. to 90, ending at the right hand, where is a brass pin, here, and in all lines under it: these figures are called Degrees.

The line of versed sines, marked V. S. begins at the right hand, against 90° on the sines, and from thence figured towards the left hand, thus: 10, 20, 30, 40, &c. ending at the left hand, about 169°; each of the subdivisions, from 10 to 30, are 2 degrees, and from thence to 90, it is single degrees; and from thence to the end, each degree is divided into 15 minutes.

The line of Tangents, marked Tan. begins at the left hand, and figured to the right, thus: 1, 2, 3, &c. to 10, and so on to 20, 30, 40, and 45, where is a brass pin, just under and even with 90, in the line of sines; from thence back, it is figured 50, 60, 70, 80, &c. to 89, ending at the left hand. Where it began, at one degree, the subdivisions are as the sines.

The line of Meridional Parts, marked Mer. begins at the right hand, and numbered 10, 20, 30, to the left hand, where it ends at 87 degrees. This line, with the line of equal parts, marked E. P. under it, are used together, and only in Mercator's sailing. The upper line contains the degrees of the meridian, or latitude, in Mercator's chart; and the lower, the equator, and contains the degrees of longitude.

# LOGARITHMS.

LOGARITHMS are a series of numbers, by which the work of multiplication may be performed by addition, and division may be done by subtraction; for, if the logarithm of any two numbers be added together, the sum will be the logarithm of the product: and if the logarithm of the divisor be subtracted from the logarithm of the dividend, the remainder will be the logarithm of the quotient: and if the logarithm of any number be divided by 2, the quotient will be the logarithm of any number be divided by 3, the quotient will be the logarithm of the cube-root of that number.

To find the logarithm of any number less than 5 figures.

#### EXAMPLES.

To find the logarithm of 7.

Look in the table for the number 7, in the side column, and against it is .84510: this number being but one figure, the index to the logarithm is 0. To find the logarithm of 79.

Look in the table for the number 79, in the side column, and against it is .89763; 1 being the index, because the given number has two figures.

To find the logarithm of 763.

Look for 763 as before, against which is .88252, the index being 2, because the given number has three figures.

To find the logarithm of 7634.

Find the three first figures, viz. 763, in the side column as before, and the fourth figure 4, at the top of the page; then opposite 763, and under 4 is .88275, to which prefix the index 3, because the given number has four figures.

To find the logarithm of five figures, or more.

Suppose 76345.

Find the logarithm of the four first figures, as before, which will be 88275; take the difference between this logarithm, and the next greater, which is 6; then say, if 10 give 6, what will the remaining figure, viz. 5, give? thus, If 10 . . 6 :: 5 . . . 3, the fourth number is 3, which, added to the former logarithm 88275, gives 88278, to which prefix the index 4, because there are five figures, and it gives the logarithm of 76345, viz. 4.88278.

To find the logarithm of 763458.

Find the logarithm of the four first figures, as before, viz. 88275.

Take the difference, as before; then say, if 100 gives 6, what will the remaining figures, viz. 58 give? Answer 3; which added to 88275, makes 88278, to which prefix the index 5, and it gives the logarithm of 763458 to be 5.88278.

Note. The Index figure is always one less than the number of figures in the given whole number, whether a decimal be annexed or not.

To find the logarithm of 763.458.

Find the logarithm, as before, the same as if the figures were all whole numbers; then, because there are but three figures in the integers, prefix the index 2, and it gives 2.88278; for the logarithm of 763.458, the same as in the preceding example, only in the index.

To find the number answering to any logarithm of four places of figures.

What is the number to the logarithm 3.77342?

Look in the column under 0, and there the next less logarithm will be 7705, opposite to 593 in the side column, then look directly across the page, and the exact logarithm will be found under 5 at the top, which annex to 593, makes 5935, the number required.

Note. When the exact logarithm is not found, it is usual to take the next less, or nearest, which is exact enough in common business.

To find the number answering to a logarithm of 5, or more places of figures.

What number answers to the logarithm 4.59632?

Take the difference between the next less logarithm, and the given one; also the difference between the next less and greater logarithms; then say, as the difference between the next less and greater logarithm, is to the difference between the numbers answering thereto, (with a cypher annexed for every unit the index figure is more than 3) so is the difference between the next less and given logarithm, to the correction sought, which added to the number answering to the next less logarithm, gives the number required. What is the number answering to the following logarithm?

4.59632 given log:

4.59627 The nearest less log. is 59627 its num. = 59470
The next greater do. is 59638 = 59480

5 Difference. 11 10

As 11 . . 10 :: 5 . .  $4\frac{6}{17}$ , which call 4.6; and added to 39470, makes 39474.6 the number sought.

# MULTIPLICATION BY LOGARITHMS.

# RULE:

To the logarithm of the multiplicand, add the logarithm of the multiplier; the sum is the logarithm of the product,

#### CASE 1.

To find the product of two whole or mixed numbers.

Multiply	76, log.	=	1.88081
<b>By</b> .	54,	=	1.73239
Product 4	104	-	3.61320
	<del></del>		
Multiply	76.4 log	. =	1.88309
$\mathbf{B}\mathbf{y}$	5.4	=	0.73239
Product 4	12.56	_	2.61548

### CASE 2.

When both or either of the factors are less than unity.

### RULE.

When the figure next to the decimal point is part of an unit, the index is 9; but if it be 0, the index must be 8; and as many eyphers as are annexed to the point, so many units the index must be less than 9; so that the number of cyphers annexed to the decimal point, and index figure, taken together, must make 9; and in adding these logarithms, ten must be rejected, if the index figures amount to ten.



Multiply	3.72	•	= 0.57054
Bý	.00064		= 6.80618
Product	.0023808	=	7.37672
Multiply	59.4	•	= <b>1.</b> 77379
By	.000031		= <b>5.4</b> 9136
Product	.0018414	=	7.26515

#### DIVISION BY LOGARITHMS.

### RULE.

From the logarithm of the dividend, take the logarithm of the divisor, the remainder is the logarithm of the quotient.

In fractions, observe the same rule as given in multiplication; and when the Index figure of the divisor is greater than that of the dividend, 10 must be borrowed, as it was rejected in addition.

Divide	.008215	log.	=	7.91	461
By	.031		=	8.19	136
Quotient	.265		=	9.42	325
Divide .0	023808	log.	_	7.37	672
By	3.72		=	0.57	054
Quotient	.00064	log.	=	6.80	618
Divide By	59.4.	5 log. 5			
Quotient	<del></del>	_		6.28	
	-	_		_	_

Note. In the indices here, I borrowed 10, in the same manner as it was rejected in Addition. (See Multiplication.)

### To extract the Roots by Logarithms.

The logarithm of the given number, divided by 2, quotes the logarithm of the square-root of that number, and divided by 3, quotes the logarithm of the cube-root of that number.

#### EXAMPLES.

What is the square-root of 324?

Log. of \$24, is = 2)2.51054 Root is 18, its log. is = 1.25527 What is the cube-root of 10648?

To find the Root of a Decimal Fraction.

For the square-root, add 10 to the index before it is divided; and for the cube-root, add 20, &c.

What is the square-root of .001849?

.001849, its log. is = 7.26694

Add 10

2)17.26694

Root .043, its log. is = 8.63347

What is the cube-root of .125?

.125, its log. is = 9.09691

Add 20

3)29.09691

Root is .5, its log. = 9.69897

To find the Logarithm of the Sines, Tangents, and Secants, belonging to any number of degrees and minutes.

#### RULE.

If the degrees be less than 45, seek them on the top of the page, and the minutes in the left hand column marked M, against which, in the column signified at the top with the proposed name, stands the sine, tangent, or secant required; but when the degrees given, be more than 45, seek them at the bottom, and the minutes in the right hand column, marked M, against which, and over the proposed name, stands the sine, tangent, or secant required.

Observe, that the degrees at the top, and minutes in the left hand column, added to the degrees at the bottom, and minutes in the right hand column, always make 90°; hence, if a sine be looked for, the co-sine or complement will be found in the adjoining column. Observe the same of tangents and secants.

#### EXAMPLES.

Required the logarithm sine of 28° 37'?

Under 28°, and opposite 37', in the left hand column, as above, and under the word Sine, stands 9.68029, the logarithm of the sine of 28° 37', as required.

Required the logarithm tangent of 67° 45'?

Find 67° at the bottom of the page, and 45' in the right hand column, opposite to which, and over the word Tangent, stands 10.38816, the log. required.

The logarithm of any number of degrees above 90, is found by subtracting the given degrees from 180°, and taking the logarithm of the remainder.

To find the Degrees, Minutes, and Seconds, to any given Logarithm.

Find the degrees and minutes corresponding to the nearest logarithm, which is exact enough for common business; but if seconds be wanted, they are thus found: take the difference between the given log, and the next less; also between the next less and greater; then say,

As the difference between the next less and greater log. Is to 60';

So is the difference between the next less and given log. To the seconds required.

But if they be required to a given log, co-sine, then say,

As the difference between the next less and greater log. Is to 60';

So is the difference between the given and next greater log.

To the seconds required.

#### EXAMPLES.

Find the degrees, minutes, and seconds, corresponding to the logarithm sine, 9.61405.

Next greater	log. 9.61411	Given log.	9.61405
Next less	9.61382	Next less	9,61382
	29	Difference.	23

As 29 . . 60": : 23 . . 48", to be annexed to the degrees and minutes corresponding to the next less log. gives 24° 16' 48", as required.

Find the degrees, minutes, and seconds corresponding to the logarithm co-sine 9.43297.

Next greater log.	9.43323	Next greater log.	9.43323
Next less	9.43278	Given	9.43297
	45	Difference.	26

As 45 . . 60": 26 . . 34", to be annexed to the degrees and minutes corresponding to the next less leg. gives 74° 16' 34", as required.

To find the Logarithm Sine or Co-Sine, for Degrees, Minutes, and Seconds.

Find the logarithm to the degrees and minutes; take the difference between this and the next greater, if a sine; of if a co-sine, the next less; then say, As 60'
Are to this difference;
So are the given seconds,

To the correction, to be added to the first legarithm, if a sine; but subtracted, if a co-sine.

### EXAMPLES.

Required the logarithm sine of 24° 16' 48"?

Next greater log. is 9.61411 The log. of 24°,16', is 9.61382

29

As 60" . . 29 : : 48" . . 23, to be added to 9.61382, gives 9.61405, the log. of 24° 16' 48", as required.

What is the logarithm co-sine of 74° 16' 34'?

The log. of 74° 16' is 9.43323 Next less, is 9.43278

As 60' . . 45 : : 34' . . 26, to be taken from 9.43323, leaves 9.43297, the log. co-sine of 74° 16' 34', as required.

# TRIGONOMETRY.

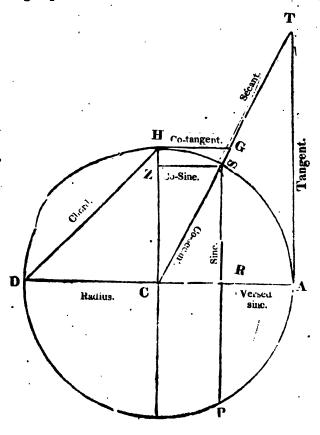
PLAIN Trigonometry, is the art of measuring plain triangles, by comparing sides and angles together, by known analogies; whereby three things being given, a fourth may be found, on condition that one of them be a side: to do which, right lines are applied to the arch of a circle, described on the angular point, viz.

A chord is a line that divides the circle into two unequal parts, and is a chord to them both, as DH is the chord of the arches DH and DAH.

- 2. The sine of an arch, is a line drawn from one end, or termination of the arch, perpendicular to the radius, or it is half the chord of twice the arch, so that RS is the sine of the arch AS, and SZ the co-sine: the sine and co-sine making a quadrant, or 90°.
- 3. A versed sine, is that part of the diameter contained between the sine, and the arch, as RA and RCD, and is the versed sine of SHD, or DEP its equal.
- 4. A tangent of an arch, is a line drawn perpendicular to one end of the diameter, just touching the arch, as AT the tangent. If the arch AS, and HG the co-tangent: demonstrated and accordance to the demonstrate of the co-tangent making a quadrant, or 90°.

1.34

5. A secant of an arch, is a line drawn from the centre through the circumference, until it cuts the tangent, as CT is a secant of the arch SA, and GC the co-secant, meeting the co-tangent: the secant and co-secant also making a quadrant, or 90°.



### RIGHT ANGLED

# TRIGONOMETRY.

THE solution of the several cases in Right Angled Trigonometry, depends on the following Position, which ought to be well committed to memory, and, by comparing it with the annexed figures, clearly understood by the learner, before he proceeds.

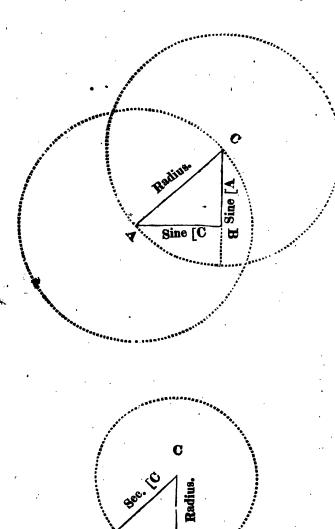
#### POSITION.

In every right angled triangle,

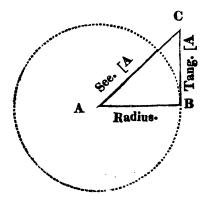
If the hypothenuse be made the radius of a circle, the other two sides, or legs, will be, each the sine of its opposite angle.

If either leg, including the right angle, be made the radius of a circle, the other leg will be the taugent of its opposite angle, and the hypothenuse the secant of the same angle.

The foregoing Position, accurately compared with the following figures, will be more instructive, than lengthy demonstrations.



Tag. [C



Note. When the hypothenuse is made radius, then the base is the sine of the opposite angle C; and the perpendicular, a sine of the opposite angle A.

When the perpendicular is made radius, then the base is tangent of the opposite angle C, and the hypothenuse a secant of the same angle.

And when the base is made radius, then the perpendicular is tangent of the opposite angle A, and the hypothenuse a secant of the same angle.

When the angles, and one side are given, to find either, or both the other sides; then either side may be made radius; and each, in rotation, to prove the work.

### RULE.

As the name on the given side, Is to the same side; So is the name on the side required, To the same side.

When two sides are given, to find the angles; then one of the given sides must be made radius.

### RULE.

As the side made radius, Is so radius; So is the other given side, To the name upon it.

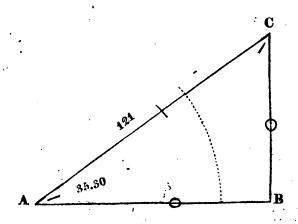
ج. د

#### CASE 1.

The Angles and Hypothenuse given, to find the Legs.

Given, the hypothenuse, 121 perches; the angle, opposite the base, 54° 30′; consequently the other angle, 65° 30′, by position 2, page 10.

For the construction, see Problem 10, in Geometry.



By making the Base Radius, it will be, To find the perpendicular BC.

As secant [A	35° 30′	10.08931
Is to the hypothen	use 121	2.08279
So is tangent [A	35.30	9.85326
	•	11.93606
		10.08931
o the perpendicular	BC 70.27	1.81675

### To find the base AB.

As secant [A 35° 30'	10.08931
Is to the hypothenuse 121	<b>2.</b> 08 <b>279</b>
So is radius 90°	10.00000
	12.08279
	10.08931
To the base AB 98.50	1.99318

By making the Perpendicular Radius, it will be,

To find the perpendicular BC.

As secant [C 5 2 30	10.23605
Is to the hypothenuse 121	2.08279
So is radius 90°	10.00000
	12.08279
	10.23605

To the perpendicular BC 70.27 1.84674

# To find the base AB.

1

As secant [ C 54° 30'	10.23605
Is to the hypothenuse 121	2.08279
So is tangent [C 54.30	10.14673
	12.22952
	10.23605
To the base AB 98.50	1.99347

# By making the Hypothenuse Radius, it will be,

# To find the perpendicular BC.

As radius	90°	10.00000
Is to the hypot	henuse 121	2.08279
So is sine [A	35° 30′	9.76395
•		11.84674
	• .	10.00000
To perpendicul	ar BC 70.27	1.84673

### To find the base AB.

As radius 90°	10.00000
Is to the hypothenuse 121	2.08279
So is sine [C 54° 30'	9.91069
••	11.99348
	10,00000
To the base AB 98.50	1.99348

### BY GUNTER'S SCALE.

All proportions, where secants are not in them, may be worked by Gunter's Scale; the extent from the first to the third term, will reach from the second to the fourth; thus the last radius.

- 1. Extend from radius 90° to 54° 30', on the line of sines; that extent will reach from the hypothenuse 121, to the base 98.50, on the line of numbers.
- 2. Extend from radius, to 35° 50, on the line of sines; that extent will reach from the hypothenuse 121, to the perpendicular 70.27, on the line of numbers.

### CASE 2 & 3.

The Angles and one Leg given to find the Hypotheruse, and other Leg.

The angle opposite the perpendicular 33° 15', and the base 274 perches, are given, to find the hypothenuse and perpendicular.

For the construction, see Problem 1, in Geometry.



By making the Base Radius, it will be,

To find the perpendicular AB.

As radius 90°	10.00000
Is to the base 274	2.43775
So is tangent [C 33° 15'	9.81666
	12.25441
	10.0000
To the perpendicular AB 179.6	2.25441

### To find the hypothenuse AC.

As radius 90°	10.00000
Is to the base 274	2.43775
So is secant [C 33° 15'	10.07765
	12.51540
	10.00000
To the hypothenuse 327.6	2.51540

By making the Perpendicular Radius, it will be,

# To find the perpendicular AB.

As tangent [A 56° 45	10.18334
Is to the base BC 274	2.43775
So is radius 90°	10.00000
	12.48775
`	10.18334
To perpendicular AB 179.6	2.25441

# To find the hypothenuse AC.

As tangent [A 56° 45'	10.18334
Is to the base BC 274	2.43775
So is secant [A 56.45	10.26099
	12.69874
	10.18334
To hypothenuse AC 327.6	2.51540

By making the Hypothenuse Radius, it will be,

# To find the perpendicular AB.

As sine [A 56° 45'	9.92235
Is to the base BC 274	2.43775
So is sine [C 33° 15'	9.73901
	12.17676
·	9.92235
To perpendicular AB 179.6	2.25441

# To find the hypothenuse AC.

To hypothenuse AC 327.6	2.51540
	9.92235
	12.43775
So is radius 90°	10.00000
Is to the base BC 274	2.43775
As sine [A. 56° 45'	9.92235

#### BY GUNTER.

Extend from 56° 45', to 33° 15' on the line of sines; that extent will reach from 274, the base, to 179.6, the perpendicular, on the line of numbers. Again;

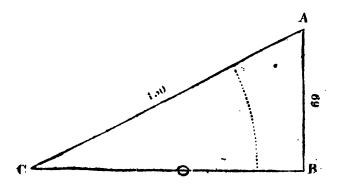
Extend from 56° 45, to radius 90°, on the line of sines; that extent will reach from 274, the base, to 327.6, the hypothenuse, on the line of numbers.

#### CASE 4 & 5.

The Hypothenuse, and one Leg given, to find the Angles, and other Leg.

Given the perpendicular, 69 chains or perches; the hypothenuse 150, to find the angles and base.

For the construction, see problem 12, in Geometry.



# By making the Hypothenuse Radius, it will be,

# To find angle C.

As the hypothenuse 150	2.17609
Is to radius 90°	10.00000
So is the perpendicular 69	1.83885
	11.83885
	2.17609
To sine [C 27° 23'	9.66276

### To find the base BC.

As radius 90°	10.00000
Is to the hypothenuse 150	2.17609
So is the sine [A 62° 37'	9.94839
• •	12.12448
•	<b>10.Q0000</b>
To the base BC 133.2	2.12448

# By making the Perpendicular Radius, it will be,

# To find angle A.

▲s the perpendicular 69	<b>1.</b> 83885
Is to radius 90°	10.00000
So is the hypothenuse 150	2.17609
	12,17609
	1.83885
To secant [A, 62° 37'	10.38724

To find the base BC.

As radius 90°	10.00000
Is to the perpendicular 69	1.83885
So is tangent [A 62° 37'	10.28568
THE COURT STORY	12.12453
	10.00000
To the base BC 133.2	2.12453

### BY GUNTER.

Extend from 150, the hypothenuse, to 69, the perpendicular, on the line of numbers; that extent will reach from radius 90°, to 27° 23′, angle C, on the line of sines.

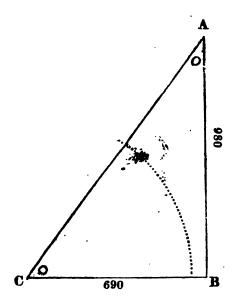
Extend from radius, 90°, to 62° 37', angle A, on the line of sines; that extent will reach from 150, the hypothenuse, to 133.2, the base, on the line of numbers.

#### CASE 6 & 7.

The Legs given, to find the Angles and Hypothenuse.

Given the perpendicular, 980 perches; the base 690, to find the angles and hypothenuse.

For the construction, see problem 13, in Geometry.



By making the Base Radius, it will be,

# To find angle C.

As the base 690	2.83885
Is to radius 90°	10.00000
So is the perpendicular 980	2.99123
	12.99123
	2.83885
To tangent [C 54° 51'	10,15288

# To find the hypothenuse AC.

As radius 90°	10.00000
Is to the base 690	2.83885
So is secant [C 54° 51'	10.23979
	13.07864
	10.00000
To the hypothenuse 1198	3.07864

# By making the Perpendicular Radius, it will be,

# To find angle A.

As the perpendicular 980	2.99123
Is to radius 90°	<b>10.</b> 00000
So is the base 690	2.83885
	12.83885
	2.99123
To tangent [A 35° 9'	9.84762

# To find the hypothenuse AC.

As radius 90°	10.00000
Is to the perpendicular 980	<b>2.</b> 99123
So is secant [A 35° 9'	10.08743
	13.07866
	10.00000
To the hypothenuse 1198	3.07866

### BY GUNTER.

The extent from 690 to 980, on the line of numbers, will reach from radius 45°, to 54° 51', on the line of tangents.

The extent from 53° 9', to radius 90°, on the line of sines will reach from 690, the base, to 1198, the hypothenuse.

The work to the preceding cases being all set down; and as a good knowledge of Trigonometry is the basis of the Mathematics, an example in each case, with their answers, is annexed, for the benefit of the learner.

 Given the hypothenuse, 250 perches or chains; the angle opposite the base, 5½° 30′, to find the base and perpendicular.

Answer; the base 203.5; perpendicular 145.2.

2. Given the angle opposite the perpendicular 33° 15; the base 325, to find the hypothenuse and perpendicular.

Answer; the hypothenuse 388.6; perpendicular 13.1.

Given the perpendicular 91; the hypothenuse 170, ind the angles and base.

Answer: the angle opposite the perpendicular 32° 22; consequently, the other angle 57° 38', (by position 2, page 10) and the base 143.6.

4. Given the base 787; the perpendicular 890, to find the angles and hypothenuse.

Answer; the angle opposite the base, 41° 28'; consequently, the other angle (by position 2, page 40) 48° 34', and the hypothemuse 1188.

### **OBLIQUE ANGLED**

# TRIGOÑOMETRY.

### POSITION.

IN all plane triangles, the sides are in direct proportion to the sines of their opposite angles, and the contrary.

When the angles, and one side are given, to find the other sides, or either of them.

#### RULE 1.

As the sine of the angle opposite the given side,
Is to the given side;
So is the sine of the angle opposite the side required,
To the side required.

When two sides, and an angle opposite to one of them, are given, to find the other angles and side.

#### RULE 2.

As the side opposite to the given angle, Is to the sine of the given angle; So is the other given side,

To the sine of its opposite angle.

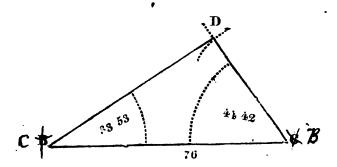
Then find the side (if required) by

### CASE 1.

Two Angles, and Side given, to find the other two Sides.

The angle BDC 101° 25', and CBD 44° 42', and the side BC 76 perches given, to find the sides CD and BD; consequently, (by position 3, page 11) the other angle is 33° 53'.

For the construction, see problem 14, in Geometry.



To find DC.

As sine supplement of angle D 101° $25$	9.99132
Is to the side BC 76	1.88081
So is sine B 44° 42°	9.84720
•	11.72801
	9.99132
To the side DC 54.53	1.73669
•	-

M

### 82 OBLIQUE ANGLED TRIGONOMETRY.

### To find BD.

As supplement of sine [D 101	9.99132
Is to the side BC 76	1.88081
So is sine [C 33° 53'	9.74625
•	11.62706 9.99132
To the side BD 43.23	1.63574

#### BY GUNTER.

The extent from the supplement of  $[D = 75^{\circ} 35']$ , to  $[B 44^{\circ} 42']$ , on the line of sines, will reach from the side BC 76, to the side DC 54.53, on the line of numbers.

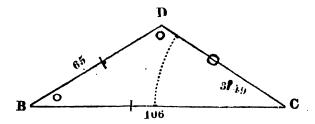
The extent from 78° 35′, to [C 33° 58′, on the line of sines, will reach from the given side 76, to the side BD 43.23, on the line of numbers.

#### CASE 2 & 3.

Two Sides, and an Angle opposite one of them given, to find the other Angles, and thir side.

The side BC 106, and BD 65, and the angle BCD 31° 49' given to find the other angles, and side CD.

For the construction, see problem 15, in Geometry.



Note. When the given angle is obtuse, the required angle will be acute; but when the given angle is acute, then it is sometimes doubtful, whether the equired angle be obcase, or acute, and ought to be determined by drawing and viewing the figure, before further procedure;

### Or by this general Rule.

Square each side; then, if the square of the side opposite the required angle, be more then the sum of the squares of the other two sides, the required angle is obtuse; if they be even, the angle is right; and if the square of the side opposite the required angle, be less than the sum of the squares of the other two sides, then the angle is acute—thus, in the foregoing figure, the required angle D, is obtuse.

### To find angle D.

As the side BD 65	1.81291
Is to sine angle C 31° 49'	9.72198
So is the side BC 106	2.02531
	11.74729
	1.81291
To sine of supplement [D 59° 17']	9.93438

By position 3, page 11, angle B, will be found to be 27° 28'.

### 84 OBLIQUE ANGLED TRIGONOMETRY.

#### To find the side DC.

As sine angle C 31° 49'	9.72 <b>198</b>
Is to the side BD 65	. 1.81291
So is sine angle B 27° 28'	9.663 <b>92</b>
	11.47683
	9.72198
To the side DC 56.86	1.75485

#### BY GUNTER.

The extent from 65 to 106, on the line of numbers, will reach from 31° 49', to 59° 17', on the line of sines.

The extent from 31° 49', to 27°, 28', on the line of sines, will reach from 65 to 56.86, on the line of numbers.

#### CASE 4 & 5.

Two Sides, and their contained Angle given, to find the other Angles, and third Side.

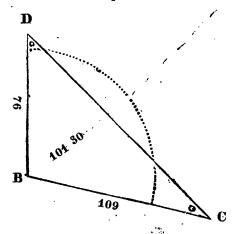
The side BC 109, BD 76, and their contained angle CBD 101° 50' given, to find the other angles, and side CD.

#### RULE.

As the sum of the sides,
Is to the tangent of half the sum of the unknown angles;
So is the difference of the sides,
To the tangent of half the difference of the unknown angles.

To half the sum, add half the difference, and the sum will be the greater angle; and from half the sum, take half the difference, and the remainder will be the less angle:

For the construction, see problem 16, in Geometry.



Side BC 109

109 From 180°

**BD** 76

76 Take 101° 30', the given angle.

Sum

185 Diff. 33 Rem. 78° 30', the sum of the un-

known angles; (by position 3, page 11) the half of which sum, is 39° 15'.

To find the difference of the angles D and C.

As the sum of the sides BC and BD = 185 2.26717 Is to the tan. of  $\frac{1}{2}$  the sum of the [s C&D= 39° 15' 9.91224 So is the diff. of the sides BC and BD = 33 1.51851

> 11.43075 2.26717

To the tang. of \( \frac{1}{3} \) the diff. of the [s C & D 8° 17' 9.16358

### 86 OBLIQUE ANGLED TRIGONOMETRY.

To half the sum of the angles, 39 15, add half their difference, 8° 17′; the sum is 47° 32′, the greater angle D, because it is opposite the longer side (by position 10, page 16) and from half the sum, take half the difference: the remainder is 30° 58′, the less angle C.

Having the angles, the side is found by Case 1.

### ·To find DC.

As sine angle D 47 32	9.86786
Is to the side BC 109	2.03743
So is supplement of sine angle B 101° 30'	9.99119
·	12.02862
	9.86786
To the side DC 144.8	2.16074
	The same of the sa

#### BY GUNTER.

The extent from 185 to 33, on the line of numbers, will reach from 39° 15', to 8° 17', on the line of tangents.

The extent from 47° 32', to 78° 30', on the line of sines, will reach from 109 to 144.8, on the line of numbers.

#### CASE 6.

The Sides given, to find the Angles.

The side BC 105, BD 85, and CD 50, given, to find the angles BDC, BCD, and CBD.

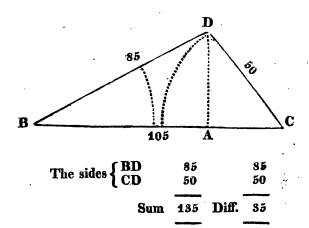
### RULE.

Divide the triangle into two right angled triangles, by letting fall a perpendicular from the point D, which will divide the base BC, into two bases of unknown lengths. viz. BA, and CA. Then say,

As the sum of the bases BA and CA,
Is to the difference of the sides BD and DC;
So is the sum of the sides BD and DC,
To the difference of the bases BA and GA.

Then to half the sum of the bases BA and CA, add half their difference, and the sum will be the greater base BA; and from half the sum, take half the difference, and the remainder will be the less base CA.

For the construction, see problem 17, in Geometry.



### 88 OBLIQUE ANGLED TRIGONOMETRY.

To find the difference of the bases.

As the sum of the base BA and CA 105 Is to the difference of the sides BD & CD 35 So is their sum 135	2.02119 1.54407 2.13033
	3.67440 2.02119
To the diff. of the bases BA and CA $\frac{1}{2}$ ) 45	1.65321
22.5	

To half the sum, 52.5, add half the difference, 22.5, the sum is 75, the greater base BA, and subtracted, leaves 30, the less base CA.

By right angled Trigonometry, to find the Angles.

# To find [B.

As the base BA 75	1.87506
Is to radius 90°	<b>10.0000</b> 0
So is the hypothenuse BD 85	1.92942
	11.92949
, •	1.87506
To secant [B 28° 5'	10.05448
To find [C.	
As the base CA 30	1.47712
Is to radius 90°	10.00000
So is the hypothenuse CD 50	1.69897
e *	11.69897
•	1.47712
To secant C 53° 8'	10.22185

By position 3, page 11,  $180 - 53^{\circ} 8' + 28^{\circ} 5'$ , =  $98^{\circ} 47'$  = ang. BDC, the several angles required.

### BY GUNTER.

The extent from 105 to 135, will reach from 35 to 45, on the line of numbers.

The extent from 85 to 75, on the line of numbers, will reach from radius to 61° 55', [BDA, on the line of sines.

The extent from 50 to 50, on the line of numbers, will reach from radius to ang. ADC 36° 59', on the line of sines.

### Examples for Practice.

Given the angle BDC 100°, and the angle DCB 51°,
 the leg BD 220 perches, to find the other two legs.

Answer; BC 267.8, DC 119.2. Tables vary in this sum.

2. Given the side BC 365, and the side AB 640, the angle BAC 26°, to find the other side and angles.

Answer; the side AC 808.7, ang. at C 50° 11', B 103° 46'.

3. Given the side BC110, AC 80, and their contained angle 102° 30', to find the other angles and side.

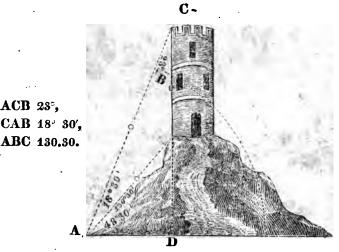
Answer; the greater angle 45° 58', the less angle 31° 32', and the third side 149.3.

4. Given the side BA 88, BC 54, AC 103, to find the angles.

Answer; the least angle 29° 19', next greater 51°, 67', and the greatest 96° 04'.

ACB 23°,

the two altitudes, is 18'30'; and of course the angle AEC 138° 80', by position 3; hence the height of the object will be found to be 110.5 feet. And by Right Angled Trigonometry, the height of the hill may be found to be 101.8 feet and depth to the perpendicular distance of the object 90.12 feet.

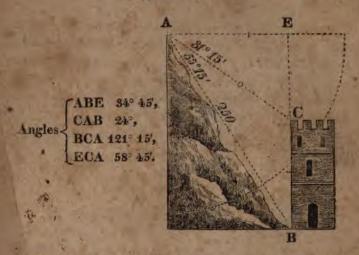


# PROBLEM III.

From the top of a Hill to find the Height of a perpendicular Object, at the foot thereof.

-Angle to the foot of the object 55°15', Given { Angle to the top 31° 15', Distance to the foot of the object 250 feet.

A ote. By the same Case, as the last Problem, the height of the object will be found to be 119 feet; the horizontal distance AE, 142.5 feet, and height of the hill 205.4 feet; from the height of the hill, take the height of the object, leaves 86.4 feet; that the hill is above the object.



The adding and subtracting these of angles, are omitted to try the judgment of the learner.

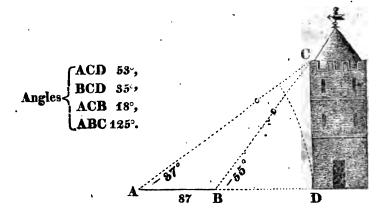
#### PROBLEM IV.

To take the Height of an inaccessible Object, on a plane, at two Stations.

Angle at the nearest station to the top 55°,
Stationary distance 87 feet backwards,
Angle at the farthest station to the top 37°.

#### RULE.

By Case 1, Obtique Angled Trigonometry, find the distance from either station, to the top of the object; from the nearest is 169.4 feet; from the farthest is 230.6 feet; then, by Right Angled Trigonometry, the height of the object will be found to be 138.8 feet.



#### PROBLEM V.

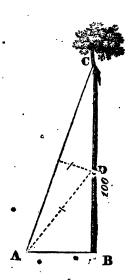
Let BC be a pole 100 feet high, and broken off at D, so that the part broken off, viz. DC, will reach from the top of the stump to A, on a plane 34 feet from the bottom or foot of the pole. Required the length of the part broken off?

#### RULE.

In the right angled triangle ABC, the base and perpendicular are given, to find the angles; and by Case 6 and 7, Right Angled Trigonometry, the angle ACB will be found to be 18° 47', and 90° — 18° 47' = 71° 18' CAB; then by position 8, page 15, intersect BC, in the broken place at D; then, by position 11, page 16, AD and CD being equal, their opposite angles must be equal; therefore, CAB 71° 13' —— ACB 18° 47' = DAB 52° 26'; then,

in the right angled triangle ABD, the angles and base are given to find the hypothenuse AD 55.77 feet, the part required.

(See the following figure.)



#### PROBLEM VI.

To take the Height of a perpendicular object, on a Hill, at two Stations, from a Plane beneath it.

Given Farthest station, angle to the bottom 21°,

angle to the top 35°,

Stationary distance 104 feet directly forwards,

Nearest station, angle to the top 42° 36°.

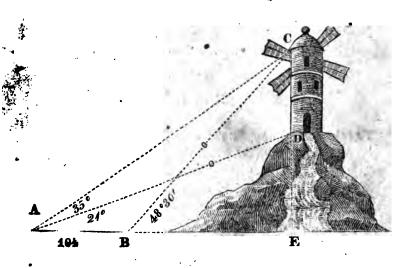
# OF HEIGHTS.

# RULE.

By Case 1, Oblique Angled Trigonometry, find the distance from the farthest station to the top of the object, viz. 333.6 feet; then by the same, the height of the object will be found to be 86.76 feet.

Note. The addition and subtraction of the angles, are omitted to exercise the judgment of the learner.

Angles ACB 13° 80′ BAC 35.00 DAC 14.00 DAE 21.00 ADC 111.00 ABC 131.30



#### PROBLEM VII.

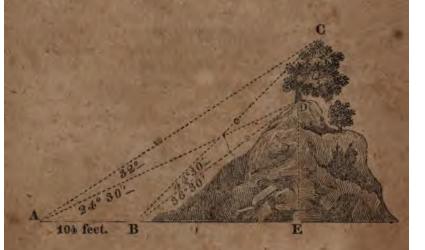
To find the Length of an Object which stands obliquely on a Hill, at two stations, on a Plane beneath it.

Civen Nearest station, angle to the bottom 36° 30′, angle to the top 44° 30′, Stationary distance, 104 feet backward, Farthest station, angle to the bottom 24° 30′, angle to the top 32°.

#### RULE.

By Case 1, Oblique Angled Trigonometry, find the distance from either station to the top and bottom of the object, as from the nearest to the top 254.7 feet, and to the bottom 207.4 feet; then by Case 4 and 5, the length of the object may be found to be 57.15 feet.

Angles {ACB 12° s0', to find BC 254.7 feet, ADB 12°, to find BD 207.4 feet, CBD 8°. to find the length of the object 57.15 feet.



#### PROBLEM VIII.

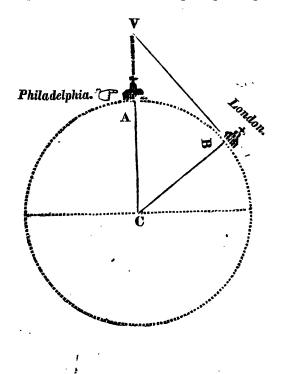
To find how high a person at Philadelphia, must be raised into the atmosphere, and how far the sight must extend, to see London; the distance being 51 Degrees, on the Rotundity of the Earth, and the Diameter of the Earth 7964 Miles.

#### RULE.

From right to left, draw a line, to represent the earth's diameter, on which describe a circle with the chord of 60°; from the centre, raise a perpendicular, and where it cuts the circle, will represent Philadelphia, as at A, from which lay off 51 degrees, to represent London, as at B; from the centre, draw a line to B, and on the point B, raise a perpendicular to intersect the former at V; then.

in the fight angled triangle CBV, the angle VCB 51°, and base CB 3982 miles, are given to find the hypothenuse CV, from which, take the earth's semidiameter, leaves AV 2345 miles, the height required; and VB. 4917 miles, 3 is the distance the sight must extend, to see London.

Note. The operations the same as Case 1, Right Angled Trigonometry.



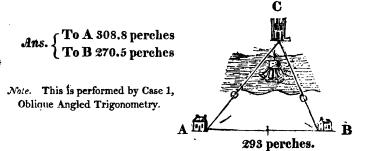
954757A .:

## **OF**

# DISTANCES.

#### PROBLEM I.

LET' A and B be two houses on one side of a river, 293 perches asunder; and a tower at C, on the opposite side of the river, which makes an angle at A, with the line AB of 55° 20'; and at B, with the line BA of 66° 20'. Required, the distance from the tower to each house?

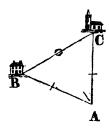


#### PROBLEM II.

Let B and C be two houses, and an observer at A 252 perches from B, and 230 from C, finds that they make an angle at A of 70°. The distance between the houses is required?

Answer, 277 perches.

Note. This is performed by Case 4 and 5, Oblique Angled Trigonometry.

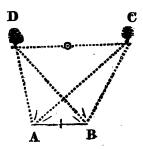


#### PROBLEM III.

Let D and C be two trees in a bog, and an observer at A and B 113 perches asunder, finds, that when at A, the tree at D makes an angle with the line AB of 100°; and that at C, makes an angle with the line AB, of 36° 30′; and when at B, the tree at D makes an angle with the line BA of 49°, and that at C of 121°. Required the distance these trees are asunder?

# Answer 232.5 perches.

Note. By Case 1, Oblique Angled Trigonometry, find the distance from either station to each tree, as from B to D 216 perches; and to C 175.6 perches; then, by Case 4 and 5, find their distance apart.



#### TO FIND THE

1

# CONTENT OF LAND,

#### GEOMETRICALLY.

#### PROBLEM I.

To find the Content of a Square Piece of Land.

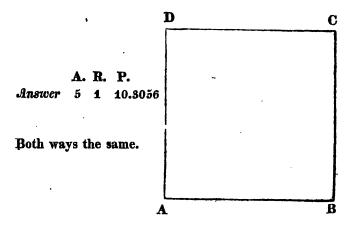
#### RULE.

Multiply the base into the perpendicular, and if they be in chains, divide the product by 10, for acres; and multiply the remainder by 4, for roods, and by 40 for perches; But if in perches, divide by 40 and by 4, for acres, roods and perches, as in the subsequent example.

#### EXAMPLE.

Let ABCDA be a square field, and each side 7 chains 29 links. Required the content, and to lay down a map by a scale of ten perches to an inch.

Chains.		Perches.
7.29	=	29.16
7.29		29.15
A. 5,3.1441		4,0)85,0.3056
D 4 05763		4)21 10 P.
R. 1,25764 40		A. 5 1 10.3056
P. 10.30560		*** Colombia



#### PROBLEM II.

To find the side of a Square, when the content is given.

#### RULE.

Reduce the given content into perches, and take the square root thereof for the side required in perches, which reduce to chains.

#### EXAMPLE.

Required to lay out a square piece of ground, which shall contain 12 acres, 3 roods, and 16 perches, and to lay down a map thereof by a scale of 20 perches to an inch.

A. R. P.

Given area 12 3 16

$$\frac{4}{51}$$
 $\frac{40}{2056}$ 

Perches. Chains.

 $\sqrt{2056} = 45.34 = 11.33\frac{1}{2}$ , one side required.

(See the above Figure.)

#### PROBLEM III.

To find the Content of an Oblong piece of Ground.

#### RULE.

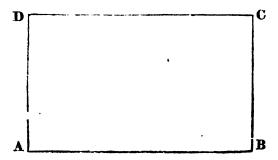
Multiply the length by the breadth, and divide as in Problem 1.

#### EXAMSPE.

Let ABCD be an oblong piece of ground 7.25 chains long, and 4.37 chains wide. Required the area thereof, and to lay down a map by a scale of 20 perches to an inch.

Length Breadth	Chains. 7.25 4.37	Perches. = 29.00 = 17.48			
A. 3 1.6825 4 		4)12 26 P.			
P. 9	40 26 92000		3A.	0R.	26.P.

A. R. P. Answer 3 0 26.92; both ways the same.



#### PROBLEM IV.

The Content of an Oblong Piece of Ground, and one Side given, to find the other Side.

#### RULE.

Divide the content in perches, by the given side in perches; the quotient will be the side required in perches.

#### EXAMPLE.

Suppose a ditch 7.25 chains long, by the side of which it is required to lay out a piece of ground that shall contain 3A. 0R. 26.92P. the breadth from the ditch is required?

Note. The two last Problems prove each other.

(See the last Figure.)

#### PROBLEM V.

To find the Content of a Rhombus, or Rhomboides.

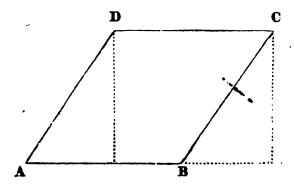
#### RULE.

Multiply the length into the breadth, and divide as in Problem 1.

#### EXAMPLE.

Let ABCD be a piece of ground, in form of a Rhombus, or Rhomboides, whose base AB, is 11 chains, and perpendicular height 10 chains. Required the content?

	Ch.		Per.	
Base	11	==	44	
Perpendicular	10	=	40	
Acres	11 0	4 0)176 0		
-		4)14		
`		Acre	s 11 Answer.	



#### PROBLEM VI.

To find the Content of a Triangular Piece of Ground.

#### RULE.

Multiply the base, by half the perpendicular; Or, half the base by the perpendicular; Or, take half of the product of the base and perpendicular; then divide as before.

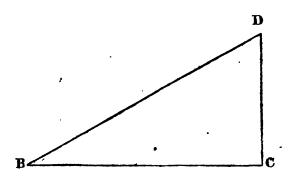
#### EXAMPLE.

Let DBC be a triangular piece of ground, the base BC 12.38 chains, and perpendicular CD 6.78 chains. Required; the content?

				Ch.
		•	Base	12.38
Ch.	•	Ch.	Perp.	6.78
Base 12.38	½ Bas	e 6.19		
½ Per. 3.39	Perp	6.78	$\frac{1}{2}$	839364
A.4 1.9682	=	41.9682	= 41	.9682 sqr. chains.
70				
,787 <b>2</b> 8				- i*
40				
P. 31 49120				

Answer 4A. 0R. 31.4912P.

If the base and perpendicular be taken in perches, it will produce the same.



#### PROBLEM VII.

The Content of a Triangular Piece of Ground, and the Base given, to find the Perpendicular.

#### RULE.

Divide the content in perches, by half the base in perches; the quotient will be the perpendicular in perches.

#### EXAMPLE.

ı

Let BC be a ditch 12.40 chains long; by which it is required to lay out a triangular piece of ground, that shall contain 4A. 1R. 10P. Required the perpendicular?

#### PROBLEM VIII.

To find the Content of a Trapezium.

#### RULE.

Multiply the sum of the perpendiculars into the base, and take half the product for the square measure, and divide as in Problem 1.

#### EXAMPLE.

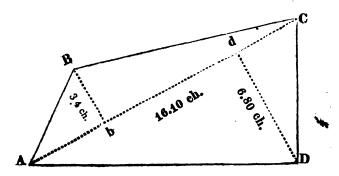
Let ABCD be a field, in form of a Trapezium; the base AC 16.10 chains, the perpendicular Bb 3.40 chains, and Dd 6.80 chains. Required the area?

Note. Bb 3.25 chains from A; and Dd 5.57 chains from C.

Ch. Ch. Ch. Per.

Perpens. 6.80+3.40=10.20 = 40.8 their sum.

Base 16.10 = 64.4  $\frac{1}{3})164.2200=\frac{1}{2})2627.52$  82.1100 = 1313.76=8 0 33.3



#### PROBLEM IX.

To find the Content of a Field, bounded by four Sides, two of which are parallel, but unequal.

#### RULE.

Multiply the sum of the parallel sides into their perpendicular distance; take half the product, and divide as in Problem 1.

#### EXAMPLE.

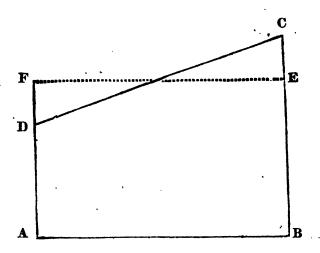
Let ABCD be a field, and the parallel sides AD and BC respectively 7.20, and 12.25 chains; and their perpendicular distance 15.40 chains. Required the area?

Ch.
Perpendiculars 
$$\begin{cases}
7.20 \\
12.25
\end{cases}$$
Sum of Perpen. 19.\(\frac{1}{2}\)5 = 77.80
Perpen. distance. 15.\(\frac{1}{2}\)0 = 61.60
$$\frac{1}{2})299.5300 = \frac{1}{2})4792.4800$$

$$149.7650 = 2396.24 = 14A. 3R. 36P.$$

ABCD is equal to ABEF.

(See the following Figure.)



#### PROBLEM X.

Two Sides of a Triangle, and their contained Angle given. to find the Area.

#### RULE.

As radius,

ā,

Is to the log. of the two sides;

So is the sine of the contained angle (or its supplement to  $180^{\circ}$ , if obtuse)

To the log. of the double area.

#### EXAMPLE.

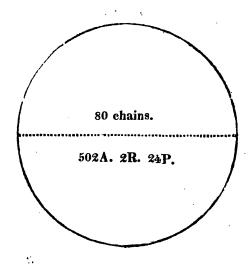
In the triangle ABC, the lines AB and AC respectively, are 16, and 10.12 chains, and their contained angle 30 degrees. Required the area.

ŧ

. <b>Ch.</b>	
Log. of diameter 80	} 1.90309 1.90309
	3.80618
	0.10491
Log. of area 5026.5	3.70127

Area 502A. 2R. 24P. as before.

(See the following figure,)



Example 2.

Suppose a circle of 100 perches diameter, is inclosed with a wall; and near the middle of this inclosure, is

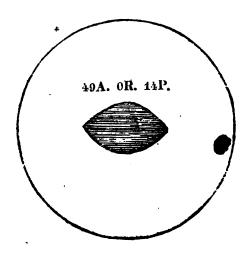
an elliptical fish pond 10 perches long, and 5 wide. Required the length of the wall, content of the inclosure, and area of the pond?

Diameter 100 Multiplied by 3.14159

The circumfer. 314.15900 perches.

Or take 314.16, as in the former example, the content of the circumference = 49A. 0R. 14P.

Area of the pond 39.27



#### PROBLEM XII.

The Area of a Circle given, to find the Diameter.

#### RULE.

To the logarithm of the area, add 0.10491, and half the sum will be the logarithm of the diameter,

Or, divide the area by .7854, and the square root of the quotient will be the diameter.

#### EXAMPLE.

Required the radius of a Circle, to inclose one acre of ground?

A. P.

1 = 100

2.2041**2** 0.10491

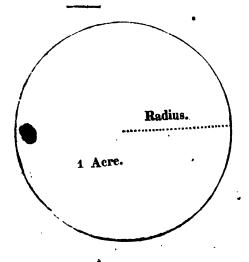
1)2.3090**3** 

\$)2.30908

P.. The diameter  $\frac{1}{2}$ )14.27

1.15451 Log.

The radius 7.135 Answer.



#### PROBLEM XIII.

To lay out an Oblong Piece of Ground, so that the Length shall bear a given Proportion to the Breadth.

#### RULE.

As the less number,

Is to the given area in square perches;
So is the greater number,

To the square of the longest side; (the square root of which will be the longest side in perches.) And,

As the greater number, Is to the given area, in square perches; So is the less number,

To the square of the shortest side; (the square root of which, will be that side in perches.)

#### EXAMPLE.

Let it be required to lay out an oblong piece of ground to contain 864 acres, and the breadth to bear the same proportion to the length, as 3 does to 5.

864 acres = 138240 perches.

As 3 . . 138240 : . 5 . .  $\sqrt{230400} = 480$  perches, the length required.

As 5 . . 138240 : : 3 . .  $\sqrt{82944} = 288$  perches, the breadth required.

Any quantity of land may be laid out, or inclosed, in the form of

0 4	Square	By Problem	11.7	Page 103
-68	Oblong, 1 side given		IV.	105
A	proportion gi	ven,	XIIL	117
43.1<	diff. of Lat. &	Bear. given,	XIV.	118
36	Triangle, the base giv	en,	VII.	108
	Circle,		XII.	

#### PROBLEM XVI.

To Map a Survey, from the Field Notes, and find the Content thereof.

#### RULE.

Draw a line on the paper, to represent the first meridian; put N at the top, for North; S at the bottom, for South; E at the right hand, for East; and W at the left hand, for West; (for in making, or viewing maps, we always suppose to face the North) then, in a convenient place, make a point in the line, for the first station lay the straight edge of the Protractor to the line, with the centre mark to the point; turn the arch of the Protractor East or West, as the bearing is; and from the North or South end of the Protractor, as indicated by the bearing, prick off the degrees mentioned; then, through this point, draw a line from the first, on which lay the first distance, and through this last point, draw a line parallel to the first meridian: to this second meridian, and at the end of the first distance, lay the Protractor as above said, and so proceed from station to station, and close at the place of beginning. Then dispose the map into triangles and trape-

ziums; measure the several bases and perpendiculars, on the same scale that the map was laid down from; find the content of each triangle and trapezium, by the preceding problems, and their sum will be the area of the map.

## EXAMPLE 1.

Required to lay down a Map of 20 Perches to an inch, from the following Notes, and find the Content.

Beginning at a stone, corner of AB's land; from thence, N. 43°  $\frac{3}{4}$  E. 10.51 chains, to a stake; thence, S. 54°  $\frac{1}{2}$  E. 14.20 chains, to a sapling, corner of CD's land; thence,

S.  $49^{\circ} \frac{1}{2}$  W. 13.45 chains, to an oak tree; thence, N.  $42^{\circ} \frac{1}{4}$  W. 12.75 chains, to the place of beginning.

Ch. Per. N. 49°  $\frac{3}{4}$  E. 10.51 = 42.04 S. 54°  $\frac{1}{2}$  E. 14.20 = 56.80 S. 49°  $\frac{1}{2}$  W. 18.45 = 53.80 N. 42°  $\frac{1}{4}$  W. 12.75 = 51.00

Perches.

Perpendiculars  $\begin{cases} 35.4 \\ 31.0 \end{cases}$  66.4

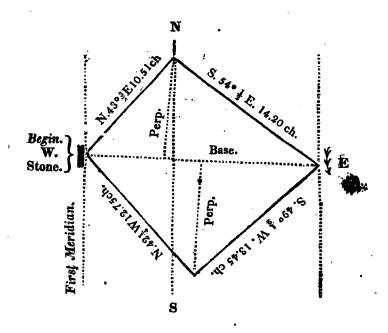
Base 7 5.

1)498 00 double area.

4,0)249,0

Acres 15 2 10 Answ.

(See the following figure.)



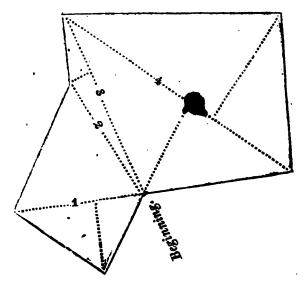
Example 2.

The following notes are proposed to lay down a Map 40 perches to an inch, and find the content.

				Ch.		Per.
1,	s.	<b>40°</b>	w.	<b>17.50</b>	=	70.
2.	N.	45°	w.	22.25	_	89.
				31.25		
<b>4.</b>	No	th		13.60	=	54.4
5.	S.	810	E.	46.50	=	186.
6.	S.	80	w.	34.25	=	137.
7.	We	st		32.55	=	130.2

Note. In Practical Surveying, it is necessary to particularize every corner, and on whom each line bounds; which, to avoid prolixity, I omit in this treatise.

In the following Maps, I shall number the bases of the several triangles and trapeziums.



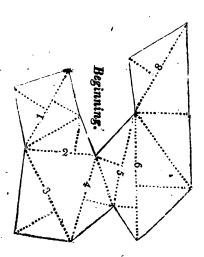
	Bases.	Perpen.	Double Area
1.	108.3	58.	6281.4
2.	125.	92.	11500.0
3.	165.	11.	1826.0
· <b>&amp;.</b>	<b>233.</b>	; 91. }	46833.0
	•		1)66410.4
		4,	,0)3322,0.2
			4)830 20
		•	

Area A. 207 2 20 Answer.

# EXAMPLE 3.

The following Notes are proposed, to lay down a Map of 40 Perches to an inch, and find the Area.

		• •				
		•	C	hains.		Perches.
1.	N.	75°	E.	13.70	-	54.8
2.	N.	20°1	E.	10.30		41.2
3.	Eas	st		16.20		64.8
4.	s.	33°1	w.	35,30		141.2
5.	s.	76°	w.	16.00		64.0
6.	No	rth 🖸		9.00		36.0
7.	S.	84	W.	11.60		46.4
8.	N.	53° 1/4	W.	11.60		46.4
. 9.	N.	36°3/4	E.	19.20	-	76.8
10.	N.	22° 1/2	E.	14.00		56.0
11.	s.	76°3/4	E.	12.00		48.0
12.	s.	15°	W.	10.85		43.4
13.	S.	16°3/4	W.	10.12		40.48

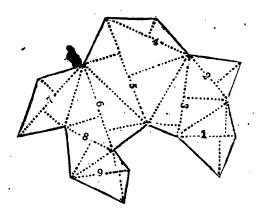


	Bases.	Perpen.	Double Area.
1.	75.4	33.5	4787.90
2.	59.0	35.	2065.00
3.	90.0}	49.3	8037.00
4.	72.5	26.3	. 1906.75
5.	86.0	26.0	2236.00
6.	112.6	20.0 } 42.2 }	7005.72
7.	141.2	44.0	6212.80
8.	85.6	27.5	2354.00
			1)34603.17
			4,0)1730,1.585
			4) 432 21
		A	eres 108 0 21 Answ.

# EXAMPLE 4.

Required to lay down a Map of 20 Perches to an inch, from the following Notes, and find the Area.

				Ch.	Perches.
1.	S.	62°	W.	7.57 =	= 30.28
2.	N.	43°1	W.	5.89 =	= 23.56
3.	Nort	h		5.82 =	= 23.28
4.	N.	3301	W.	8.83 =	= 35.32
5.	N.	48	E.	4.81 =	= 19.24
6.	N.	12	E.	4.66 =	= 18.64
7.	N.	6201	E.	. 5.27 =	= 21.08
8.	S.			5.60 =	= 22.40
9.	S.	4001	E.	5.87 =	= 23.48
10.	Eas	t		6.54	= 26.16
11.	Nor	th		5.52	= 22.08
12.	N.	6801	E.	3.10 :	= 12.40
13.	S.	30°	E.	7.90 :	= \$1.60
14.	S.	23°	W.	8.80 :	= 35.20
15.	S.	3101	E.	6.42	= 25.68
16.	S.	50°	W.	8.40	= 33.60
17.	N.	440	W.	7.04	= 28.16
			R 2		



	H	ases.	•	Регр.	Double Area.
No.	1.	24.6	}	17.9 } 17.6 }	873.30
•	2.	42.6		15.8	673.08
	3.	<b>52.0</b>	}	21.0 } 22.2 }	2246.40
	4.	43.4	-	8.5	<b>368.</b> 90
	5.	73.0	}	<b>2</b> 6.0 <b>?</b> · <b>22.1 \$</b>	<b>\$511.3</b> 0
•	6.	59.2	}	24.4 7 23.1 \$	2812.00
	7.	46.0	{	20.7 \\ 22.2 \\	1973.40
	. 8.	35.7	-	25.1	896.07
	9.	35.2	}	17.0 } 11.0 }	985.60
				•	±)14340.05

Acres 44 8 10 Answ.

4|0) 717|0.02

# A TABLE

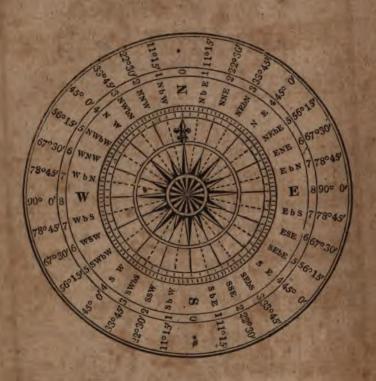
OF THE

ANGLES WHICH EVERY POINT OF THE COMPASS

MAKES

# WITH THE MERIDIAN.

North.	South.	Points.	D.M.	North.	South.
-	1	1	2.49	- 79.00	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	(V-1-1)	1 2	5.37	18 - 10	No. of the last
	( )	3	8.26	The second	- 100
N. by E.	S. by E.	1	11.15	N. by W.	S. by W.
	CONTRACT OF THE PARTY OF THE PA	1 1	i4. 4		BR STE
2	125-1	1 101214	16.52	1000	10 A P P P P
No.	ENGLANC.	1 3	19.41	The state of the	Company of the
N.N.E.	S. S. E.	2	22,30	N. N. W.	S. S. W.
	THE STATE OF	2 1	25.19	200	
1 2 - 1	W. T. L. W. W.	2 1	28. 7	( 100 m	(S)
Complete State	W 10 3 3 3 3	2 3	30.56	50 mm ( )	No. of the last of
N. E. by N	S. E. by S.	3		N. W. by N	S W. by S.
-	No. of the last	3 1/4	36.34	1	Market St.
1 53	The State of the S	3 1	39.22	WACH I NOW	Carlo de
1000	No and		42.11	53×5	Market Mark
N. E.	S. E.	The Real Property lies	45. 0	N.W.	S. W.
	(BE) 700		47.49		TO SHOW
1	10000	4 1/2	50 37		
4 mm	2.00		53.26		
N. E. by E	S. E. by E.	5		N. W. by W.	S. W. by W.
200	ST. P.		59. 4		
1	See Line		61.52	200	
4304	12221	Track Control	64 41	de la constant	Care Service !
E. N. E.	E. S. E.	-	67.30	W. N. W.	W. S. W.
			70.19	COLD TO SE	PROPERTY.
		100	73. 7	1	
The same			75.56	Law of Table	Sept of the
E. by N.	E. by S.		78.45	W. by N.	W. by S.
	TISE!	7 1/4	81.34		F - 3
W 19	THE PARTY OF	2	84.22	William To San	AU CONTRACT
200	War Sales		87.11	A (25 - 1)	1 1 1 1 1 1
F15-1	East.	8	90. 0	West.	
			_		The state of the s



## TO FIND THE

# CONTENT OF LAND,

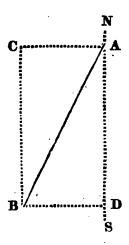
BY

#### CALCULATION.

THE foregoing method of dividing a map into Triangles and Trapeziums, although it appears to be demonstrably true in theory, it is not to be depended on in practice, where accuracy is required; for a map may be so divided several ways, and will generally give as many different areas; therefore I shall not enlarge upon it here, but proceed to shew how the true Area may be found, by difference of latitude and departure.

#### DEFINITIONS.

- 1. Meridians are North and South lines supposed to pass through every station, parallel to each other.
- 2. The difference of Latitude, or Northing or Southing of any line, is the distance that one end of the line is North or South from the other—Thus in the following figure



Suppose NS to be a meridian line, passing through the point A, of the line AB; then is AD the difference of latitude or southing of the line AB.

3. The Departure of any line, is the nearest distance from one end of a line to a meridian passing through the other end; thus DB is the Departure or Westing of the line AB.

Reverse this line, and call it BA; then will BC be the Difference of Latitude or Northing of the line BA, and CA the Departure or Easting of the same line.

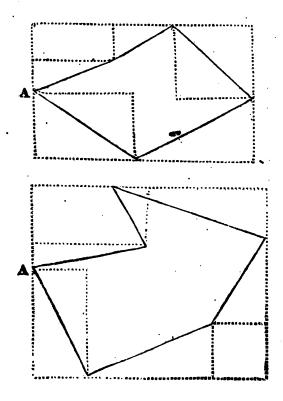
4. That meridian which passes through the first station, is called the first meridian.

The meridian distance of any line, is the distance thereof from the last meridian.

# TO FIND THE CONTENT OF LAND. 131 POSITION.

In every survey, which is truly taken, the sums of the Northings and Southings will be equal; and the sums of the Eastings and Westings will be equal.

For, if I depart from any place, suppose A, in the annexed figures, it is evident, that when I return to the same spot, I must have made as much Northing as Southing, and Easting as Westing, let my traverse be ever so irregular.



To take out of the Tables of Latitude and Departure, the Difference of Latitude and Departure, answering to any Course and Distance.

#### RULE.

If the integral number exceeds not 100, it is found in the right and left hand columns marked, Dist. And if the degrees be less than 45, they are found at the top of the page; and in the columns marked Lat. and Dep. is the latitude and departure answering thereto; but if the degrees exceed 45, they are found at the bottom of the page, and the latitude and departure in the columns so marked at the bottom. Then, opposite to the given distance, and under, or over the given degrees, will be the Latitude and Departure required. And if a decimal number be annexed, proceed with it as if a whole number, only observe, in taking out the difference of Latitude and Departure, to move the decimal point as many figures to the left, as are in the given decimal: and these last numbers, added to the former, will be those sought; but if the distance exceeds 100, it must be taken out at two or more times, and the results added together.

#### EXAMPLES.

Suppose the course to be N.  $34^{\circ}\frac{1}{2}$  E. and distance 14.64 chains.

Opposite to 14, and under 34° ½, I find	Lat. 11.54	Dep. 7.93
Opposite to 64, and under the same de- grees, moving the decimal point two figures to the left, I find		0.86
	1	2 20

Gives the number sought

## Bearing S. 53° 1 W. Distance 26.17 chains.

Opposite to 26, and over 53° ½, I find	Lat. 15.56	Dep. 20.83
Opposite to 17, moving the point two figures to the left, I find	00.10	00.14
The numbers required,	15.66	20.97

## Bearing, N. 28° 3 W. Distance, 146.8 perches.

	Lat.	Dep.
Opposite to 100, and under 28° 3, I find	87.67	48.10
Opposite to 46, in the same columns, I find	3	22.13
Opposite to 8, moving the point one figure to the left hand,	00.70	00.38
Give, as required,	128.70	70.61
the state of the s	-	-

If the given distance be less than 10, and only one decimal figure, then the difference of latitude and departure may be taken at one view, by finding the two figures in the side column, as if they were a whole number; and in taking out the latitude and departure, move the decimal point one figure to the left.

Suppose the bearing to be S. 18° \(^3\) E. Distance 7.40 chains.

A STATE OF THE STA	Lat.	Dep.
Opposite to 74, and under 18° 3, moving ?	7.00	0 0
the point one figure to the left, I find 5	7.00	2.37

Thus proceed with every course and distance in the survey, and place the numbers in their respective columns, in tables ruled for that purpose, as in the Examples following. Then add up each column, and if they balance, as mentioned in the preceding position, the work is right.

But in real practice, it but rarely happens, that the columns of latitude and those of departure, will balance on first being added up, for little inaccuracies will arise, both in taking the observations, and in chaining; to adjust which, Observe,

That in small surveys, if the difference amounts to 5 links for every station, there must have been some error committed in taking the survey; and the best way to rectify it, will be by a re-survey on the ground, or at least so much of it as will discover the error. But if the differences be within these limits, the work may be balanced, by adding one half of the differences to the numbers in the less columns, and subtracting it from those in the greater, in such a manner, that the numbers may be altered nearly in proportion to their corresponding distances, as in the following example.

#### EXAMPLE.

				7	6	Ut	4	Co	10	-	No.	1
	B		1	West.	S. 8 W.	S. 81 E.	North.	N. 36 E.	N. 45 W. 22.25 15.74	S. 40 W. 17.50	Courses	Field Notes.
		Ž	100	32.50	34.25	46.50	13.60	312 5 25.28	22.25	17.50	Chains N. L.	es.
0	100-	00.00	54.62				13.60 13.60	25.28	15.74			Er
J Diff.	Diff.		54.58		33.91	7.27				13 40	S. L.	From the Tables.
ff. 9	3)4	09,60	64,29	34		7.27 45.92		18.37		E	E.D	o Tab
			64.25	32.50	4.76	71.4			15.74	11.25	W.D.	les.
		1	54.62 54.58 64.29 64.25 54.60 54.60 64.27		100		13,60	25.27	5.74 15.73		N. L.	
			54.60		33.92	7.28	B	-	9	13.40	S. E.	Balanced.
		-	64.27			7 28 45 91	-21	18.36			E. D.	need.
	100	1	64.27	32.50	4.77	1	-	1	15.75	11 25	W.D.	

Having found the difference of latitude and departure to every course and distance, and balanced the columns, if necessary, then find the meridian distances, by choosing such a place in the columns of Eastings or Westings, as will admit of a continual double addition of the one, and subtraction of the other; and this will end in 0, 0, or a cipher, if the additions and subtractions be right; because there is just as much added as subtracted, which will become easy and familiar by a little practice, and instruction from the teacher.

Then multiply each upper meridian distance into its respective Northing or Southing, and place the products in their respective columns of North or South area, and half the difference between the sums of these columns will be the area of the map, in such measure as the distances were taken in. As exemplified in the following examples.

I shall now proceed to find, by calculation, the area of each of the preceding surveys.

Note. In the following example, the columns of difference of latitude and departure, will not balance on first adding up.

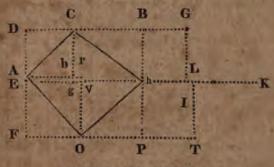
EXAMPLE 1.

	4	co	63	200	No
Area	4N.421W. 12.75 9.42	3 S.49 W. 13.45	S.54gE. 14.20	1N.43° 3E. 10.51 7.58	No Bearings. D. Ch. N. L. S. L. E. D. W. D. E.M.D. N. Area.
17.00 17.0 Area 15A. 3R. 35P	12.75	13.45	14.20	10.51	D. Ch.
7,00 3R.	9.42	200		7.58	N. L
17.00		8.74	8.26		S. L.
3R. 30P.	12.19		8.26 11.55	7.26	E. D.
18.8	8.57	10,24			W. D.
100		27.38	26.07	7.26	E.M.D
135.7602 A. B.	0.00 80.7294			7.26 14.52 55.0308	N. Area.
135.7602.454.6394 135.7602 135.7602 135.7602 135.7602 135.7602 135.7602 135.7602 40 140 140 140 140 140 140 140 140 140		239.3012	215,3382	The same	S. Area.

## Proved by making West Meridian Distance.

No Bearings.	D. Ch.	N. L.	S. L.	E. D.	W. D.	WMD	N. Area.	S. Area.
1 N.43° 4E.	10.51	7.58		7.26		30.36	230.1288	
2 S.54½E.	14,20	100	8.26	11.55		11.55		95.4030
3 S.49½W.	13.45	8	8.74		10.24	10.24	1	89.4976
4 N.42 1 W.	A COLUMN TO SERVICE AND ADDRESS OF THE PARTY				8.57	29.05 37.62	273.6510	
	0.14	17.00					503.7798 184.9006	184.9006
						1	)318.8792	
		22	he say	ne as l	before.	1	159.4396=	A. R. P.

Map of the preceding Calculation.



## DEMONSTRATION.

Ab or DC, is the east departure of the first distance AO; and AD or bC the north difference of latitude, gh

the east departure of the second distance Ch; and Cg = DE, the south difference of latitude, PO the west departure of the third distance hO, and VO = EF the south difference of latitude, OF the west departure of the last distance OA, and FA the north difference of latitude; and AD × DC=the area of AbCD, and DC + DC + gh= DG = EI, and EI × DE = the area of EIGD; and EI + gh = EK, and EK — PO = EL = FT, and FT × FE = the area of FTLE, and FT — PO = OF = FO, and FO × FA = the area of FOrA.

It is sufficiently clear, that the south areas take in those of the north, and that the sum of the north areas is equal to the sum of the parallelograms BGIh, and hLTP; therefore the sum of the north areas taken from that of the south, leaves the area of the parallelogram DBPF, which is double the area of the map. For (by Positions 2 and 3) a triangle is equal to half a right angled parallelogram, made by the base and perpendicular height of the triangle; so, also, must a trapezium be equal to half a right angled parallelogram, made by the base, and height of the sum of the two perpendiculars.

Now, if a line be drawn from the point A to h, and from the points C and O, let fall perpendiculars on that line or base, then the map is a Trapezium (see the same figure 120) and the parallelogram DBPF, equal to the two parallelograms made on the base Ah, one of them being the height of a perpendicular from C, and the other of one from O. The same demenstration will hold good on like principles, where the Meridian distance is West, and the South areas taken from those of the North, leave the double area of the map. And the same of any map or survey.

			•	Exa	MPLE	2.			
N.	Bearings.	D. Ch.	N. L.	S. L.	E. D.	W. D.	E.M.D	N. Area.	S. Area.
1	s. 40° W.	17.50		13.40		11.25	42.75 31.50	,	572 500
2	N. 45 W.	22,25	15.73			15.75	15.75 00.00	247.7475	
3	N. 36 E.	31.25	25.27		18.36		18.36 36.72	463.9 <b>57</b> 2	
4	North.	13.60	13.60				36.72	499.3920	
5	S. 81 E.	46.50		7.28	45.91	,	82.63 128.54	Ţ	601.5464
9	s. 8 w.	34.25		33.92		4.77	123.77 119.00		4198.2784
7	West.	32. <b>5</b> 0				32.50	86.50 54.00		
-,			<b>54</b> .60	54.60	64.27	64.27		211.0967	5372.6748 1211.096 <b>7</b>

Area 208A. 0R. 12.6248P. As before.

P. 12,624800

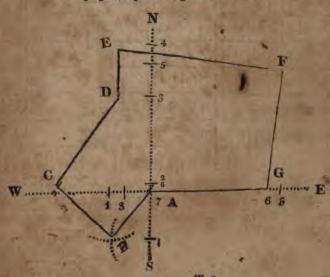
				8.0	See .	3 4		60	9	
2	- 50	V	01	en 1	4	co	10	-	Z	
Area 208 A . OR. 12.6548P.		West.	S. 8 W.	S. 81 E.	North.	N. 36 E.	N. 45 W. 22.25	1S. 40° W.	Bearings.	1
R. 126	35	32.50	34.25	46.50	13.60	31.25	22.25	17.50	D. Ch.N. L.	roved
	54.60		124	Nº 19	13.60	25.27	15.73	5	N. L.	by m
The same as before.	54.60 64.27 64.27		33.92	7.28			E	13.40	S. L.	aking
me as I	64.27			45.91		18.36	100		E. D.	West
elore.	64.27	32.50	4.77		2	- 10	15.75	11.25	W. D	Meri
p. 1		72,54	9.54	45.91	91.82	91.82	11279	85 79 97.04	W.M.D.	Proved by making West Meridian Distance.
A. 208,078903 4 ,315620 40 P. 12,624800	5807,1873 1645,6092 3)416,1.5781				1248.7520	2784,2486	1774.1867		S. L. E. D. W. D W.M.D. N. Area.	stance.
13 17	1645.6092	100	161.7984	334.2248				1149.5860	S. Aica.	

To make a Map, from Difference of Latitude and Departure.

#### RULE.

1. Draw a meridian line as NS, and assume a point therein, for the first station, as 1, through which draw a line perpendicular thereto both ways, as WE. 3. With the distance from A to 1, on the line NS, and one foot in 1, on the line WE, describe an arch upward, if North, and downward, if South, as at B, and with the distance from A to 1, on the line WE, and one foot in 1, on the line NS, cross the said arch in B, the place of the second station; and so for the 2d, 3d, 4th, &c. which joined with lines, will complete the map.

Map of the preceding Calculation.



EXAMPLE 3.

#### West Meridian Distance.

N.	Bearings.	D. Ch.	N. L.	S. L.	E. D.	W. D.	WM.D	N. Area.	S. Area.
1	N. 75 E.	13.70	3.54		13.24		52.84 39.60	187.0536	
2	N. 20‡ E.	10.30	9.65		3.60		36.00 32.40	347.4000	
3	East.	16.20			16.20		16.20 00.00		
4	S. 33⅓W.	35.30		29.44		19.49	19.49 38.98		573.7856
5	s. 76 w.	16.00		3.87		15.52	54.50 70.02		210.9150
6	North.	9.00	9.00				70.02	630.1800	
7	<b>s.</b> 84 W.	11.60		1.20		11.54	81.56 93.10		97.8720
8	N.53] W.	11.60	6.93			9.29	9د.201 11ء.08	709.5627	
. 9	N.36 <del>3</del> E.	19.20	15.38		11.48		160.20 88.72	1541.0760	
10	N. 22½ E.	14.00	12.93		5.36		83.36 78.00	1077.8448	
11	S. 76 <sup>3</sup> E.	12.00	<b>9</b> 611	2.75	11.68		66.32 • 54.64		182.3800
12	S. 15 W.	10.85		10.48		2.81	57.45 60.26		602.0760
13	s. 16 <sup>3</sup> <sub>4</sub> W.	10.12		9.69		2.91	63.17 66.08		612.1173
	·		<b>57.4</b> 3	57.43	61. <i>5</i> 6	<b>61.5</b> 6		4493.1171 2279.1459	2279.1459

A. R. P. Area 110 : 2 : 82 nearly. A. 110,69856 4 R. 2,79424

P. 31,76960

THE EXAMPLE,

## By East Meridian Distance.

N.	Bearings.	Dist.	N.L.	S. S.	E. D.	<b>w</b> . <b>D</b> .	E.M D	N. Area.	S. Area.
1	N. 75 E.	13.70	3.54		13.24		58 <b>84</b> 72.08	268.2936	
2	N. 20 1 E.	10.30	9.65		3.60		75.68 79.28	730.3120	
3	East.	16.20			16.20		95.48 111.68	-	
4	S.33½ W	35.30		29.44		19.49	92.19 72.70		2714.0736
5	S. 76 W.	16.00		3.87		15.52	57.18 41.66		221.2866
6	North,	9.60	9.00				41.65	374.9460	
7	S 84 W.	11.60		1.20		11.54	30 12 18.58		36.1440
8	N.53 <sup>3</sup> (V	11.60	6.93			9.29	9.29	64.3797	
9	N.36 <sup>3</sup> E.	19.20	15.38		11.48		11.48 22.96	176.5624	
10	N.22½ R.	14.00	12.93		5.36		28.32 53.68	366.1776	
11	S. 76 <sup>3</sup> E.	12.00		2.75	11.68		45.36 57.04		124.7400
12	S. 15 W.	10.85		10.48		2.81	54.23 51.42		568.3304
13	S. 16 <sup>3</sup> W	10.12		9.69		2.91	48.51 45.60		470.0619
		:	57.43	57.43	61.56	61.56		1920.665	4134.6365 1920.6653

· 1)2213.9712

A. 110,6.9856

R. 2,79424

P. 31,76960

A. R. P. Area 110 : 2 : 32 nearly.

EXAMPLE 4.

## West Meridian Distance.

	N. Area.	20.50	6.68		3.56		7 57	5. 62 W.
105 0200		36.18	-		370		-	4
	171.7821	40.23	4.05			4.27	5.89	N 43 W
	257.7096	44.28				5 82	5.82	North.
	361.8176	49.16 54.04	4.88			7.36	8.83	$N 33\frac{1}{2}W$
	162.5134	50-47 46-90		3.57		3.22	4.81	N 48 E
	209 0270	45.94		0.96		4.15	4.66	N 12 E
	97.9290	40.30		4 68		2.43	5.27	N $62\frac{1}{2}E$ .
194.544	-	34-99		0.63	5.56		5.60	S: LE
136.2530		34.36		3.81	4.46		5.87	S 401E
100.200		20.20		6.54			6.54	East.
	75.4032	13.66		-	-	5.52	5.52	North.
	12.3970	10.78		2.38		1.15	3.10	N68 1E
27.018		7.90 3.95		3.95	6.84		7.90	S 30 E.
27.864		3:44	3.44		8 10		8.80	S 23 W
19.309		3.53	-	3.35	5.47	_	6.42	S 31 E.
35 94		6,61	6.43	1	5.40	_	8.40	S 50 W
33 794	00.0051	13.04	4.89			5.07	7.04	N 44 W
~ ~ ~ ~	90.9051	22.82	2117		39.39	200		
<b>545.70</b> 2.	1439.4840 545 7025	,	30.37	30.37	39.39	39.39 [	- 9	
	)893.7815	į						
	44,689075	A.						
	4	_		P. 0.25	R. 2:30	A. ea 44 :	Λr	
	2,756300	R.						

## The same Example calculated with East Meridian Distance.

N	Bearings.	DC	N. L.	S. L.	E. D.	W. D.	EMD.	N. Area.	S. Area.
1	S. 62 W.	7.57	1	3.56		6.68	17-86		87.3624
2	N 43 W	5.89	4.27	1		4.05	9.76	58.9687	4 1 3
3	North.	5.82	5.82	7	(PI)	- 10	9.76	56.8032	1
4	N 33½W	8.83	7.36	35	150	4.88	4.88	35.9168	11.5
5	N 48 E.	4.81	3.22		3.57	RA	3.57	11.4954	TPYE
6	N 12 E	4.66	4.55	- 100	0.96		8.10	36.8550	
7	N 631E.	5.27	2.43	150	4.68	10 12	13.74	\$3.3882	3.6
8	S 6 E	5.60		5.56	0.63	THE REAL PROPERTY.	19.05		105.9180
9	S 40½E.	5.87	-	4.46	3.81	-	27-30		104.7654
10	East.	6.54	-		6.54	1	33.84	7	1,000
11	North.	5.52	5.52	70.3	6 8	100	40.38	222.8976	
19	N68 1E	3.10	ALC: NO.		2.88	-	43.26	49.7490	
-	-	200	100		1	-	50.00	2011 250	-
13	S 30 E.	7.90	135	6.84	3.95	1	54:04		342.6156
14	S 23 W	8.80		810	BIL	3.44	47.16	31	409.8600
15	S 31 E.	6.42	ALT:	5.47	3.35	100	50.51	W-19	276.2897
16	S 50 W	8.40		5.40		6,43	47-43		256,1220
17	N 44 W	7.04	5.07		100	4.89	30,11	183.0777	
			39.39	39.39	30.37	30,37	31-22	689.1516	1582,9331

A. R. P. Area 44 : 2 : 30.252 A. 44,689075 4 R. 2,756300 40 P. 30,252000

3893.7815

#### EXAMPLE 5.

This example has an inaccessible boundary, occasioned by the points of a lake projecting into the land, between the 3d and 4th corners; to survey which I take the Field Notes as follows, and in perches, as some surveyors are in the practice of so calculating their surveys.

	1.	North.	Per. 37.9
	2.	N. 85 E.	36.0
	ر3.	S. 25 W.	25.0
3.	₹4.	S. 2 E.	35.0
	L5.	S. 26 E.	<sub>20.0</sub> J
4.	6.	S. 85 W.	60.0
5.	7.	N. 3 W.	40.0
6.	8.	East.	26.8

three devious courses and distances, and what they want of balancing, will be the difference of latitude and departure for the distance from the 3d to the 4th corners, with which find the bearing and distance, as under specified.

No	Bearings.	Dist.	N. L.	S. L.	<b>E. D</b> .	W. D.
5	S. 25 W.	25.0		22.7		10.6
÷	S. 2 E.	35.0		35.0	1.2	
5	S. 26 E.	20.0		18.0	8.8	
-	N. E.		75.7		0.6	
			75.7	75.7	10.6	10.6

Note. When calculations are made in perches, it is usual to retain but one decimal figure: and when the second is more that five, to increase the first one more.

To find the bearing from the 3d to the 4th corner.

As difference of latitude 3a 75.7P.	1.87910
Is to radius 90°	10.00000
So is departure 4a 0.6P.	9.77815
	9.77815
	1.87910
To Tangent bearing 0° 27'	7.89905

From the 4th to the 3d corner, N. 0° 27'E. From the 3d to the 4th corner, S. 0° 27'W.

To find the distance from 3d 46 4th corner.

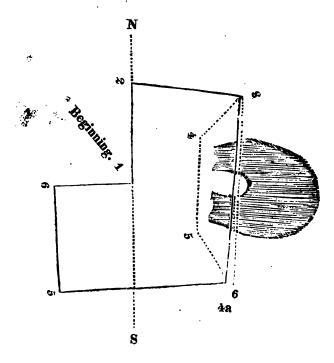
As radius 90° Is to difference of latit	ude 3a 75.7	10.00000
So is secant bearing		10.00001
		11.87911
		10.00000
To the distance 75.7		1.87911

The Traverse will now stand as in the following page.

No	Bearings.	D. P.	N. L.	S. L.	E. D.	W. D.
1	North.	37.9	37.9			
2	N. 85° E.	36.0	3.1		35.7	<del></del>
3	S. 27' W.	75.7	<del></del>	75.7		0.6
4	S. 85 W.	60.0		5.2		59.8
5	N. 3 W.	40.0	39.9			2.1
6	East.	26.8			26.8	
			80.9	80.9	62.5	62.5

Area 22A. 3R. 38.91 P.

Mote. The calculation is omitted, to exercise the learner.



#### EXAMPLE 6.

In the following survey, the last course and distance is omitted to be taken; but it is required to be found, and also the area of the land inclosed.

#### RULE.

Find the difference of latitude and departure as before, for the several courses and distances taken, and what they want of balancing, will be those of the closing line, which find by Case 6 and 7, Right Angled Trigonometry.

Stations.	Bearings.	D. Ch.	N.L.	S. L.	E. D.	W. D.
AB	N. 60 W.	9.72	4.86			8.41
BC	N. 17 1 E.	7.65	7.31	7	2.27	-
CD	N. 15 3 W.	9.40	9.04	110	30	2.55
DE	N. 63 3 E.	19.43	4.61	4 7	9.35	
EF	S. 49 E.	8.12		5.33	6.13	
FG	S. 13 ½ E.	8.+5		8.22	1.97	20
GH	S. 16 3 E.	,6.44	1	6.17	1.86	
HA	S. 60.07 W.	12.24		6.10	3	10.62

Area 33A. 2R. 1.6056P.

## To find the bearing.

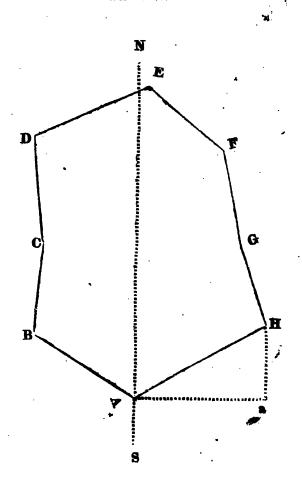
As difference of latitude Ha.	6.10	0.78533
Is to radius 90		10.00000
So is departure Aa 10.62.		1.02012
		11.02612
		0.78533
To tangent hearing HA 60° 0	Nyi .	10.94079

## To and the Distance.

As radius 90°		10.00000
Is to difference of latitude Ha	6.10	0.78533
So is secant bearing 60° 07'		10.30256
		11.08789
		10.00000
To the distance HA 12.24		1.08789

Note. Observe the above proportion, in finding the bearing and distance of all lines required, as above





#### EXAMPLE 7.

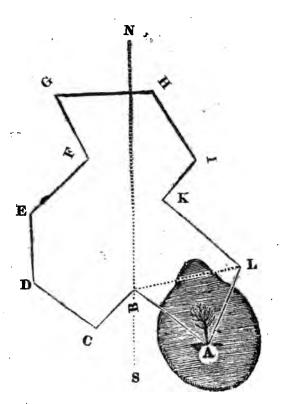
In the following survey, the corner at A is inaccessible, occasioned by the overflowing of water; but it being a tree, it can be seen from the adjacent corners B and L; I therefore set my instrument at B, and take the bearing to A, which I find to be S. 51° ½ F. This I reverse, and place it as the first bearing in my field book, viz. N. 51° ½ W. then proceed and take the several bearings and distances to L; and from L, I find the bearing to A is S. 20 ½ W. which I put for the last bearing in my field book, as under exemplified.

Stations.	Bearings.	D. Ch	N L.	S. L.	E.D.	W.D.
AB	N. 51 1 W.		IFA		100	
BC	S. 45 ½ W.	15.16		10.62		10.81
- CD	N. 50 W.	22.10	14.20			16.93
DE	North-	18.83	18.83			
E.F.	N. 48 E.	22.60	15.12	1210	16.79	
FG	N. 25 ½ W.	20.17	18.20		430	8.68
GH	East.	26.57			26,57	
HI	S. 30 1 E.	22.86		19.70	11.60	
IK	S. 44 W.	15.04		10.82		10.45
KL	S. 47 E.	28.55	THE .	19.47	20.88	
LA	S. 20 ½ W.	9/3	FIV	1 - 1	100	35

The learner should set down all the work in full.

The difference of latitude and departure being found for the several courses and distances as above, and the columns added up, there will be wanting 5.74 south difference of latitude, and 28.97 west departure, to make the columns balance, as before directed, which are the difference of latitude and departure from L to B; with which, as in the foregoing example, the bearing of LB is found to be S. 78° 48' W. and distance 29.55 chains; then, in the triangle ABL, there are given the side LB, and by the bearings of the lines, the angles ABL 49° 57', ALB 58° 18', BAL 71° 45', to find the other sides; and by Case 1, Oblique Angled trigonometry, AB is found to be 26.47 chains, which set in its proper place, opposite its bearing, and the side LA 23.82 chains, which place opposite to its bearing; find the difference of latitude and departure to these distances, and proceed as before, to find the area of the survey, which is 244A. 3R.

(See the following figure.)



Specimens of the Pennsylvania method of Calculation; which, for simplicity and ease in finding the Meridian Distances, is supposed to be preferable in practice, to any thing heretofore published on the subject.

FIND in the first place, by the Traverse Table, the latitude and departure for the several courses and distances, as already taught; and if the survey be truly taken, the sums of the northings and southings will be equal, and also those of the eastings and westings. Then in the next place, find the meridian distances, by choosing such a place in the column of eastings or westings, as will admit of a continual addition of one, and subtraction of the other, by which means we avoid the inconvenience of changing the denomination of either of the departures.

The learner must not expect, that in real practice, the columns of latitude, and those of departure will exactly balance, when they are at first added up; for little inaccuracies will arise, both from the observations taken in the field and in chaining, which to adjust, previous to finding the meridian distances, we may observe, that if, in small surveys, the difference amount to two tenths of a perch for every station, there must have been some error committed in the field; and the best way in this case, will be to rectify it on the ground, by a re-survey, or at least as much as will discover the error; but when the differences are within those limits, the work may be balanced in the following manner; on a slate or separate piece of paper, find the latitude and departure to each

course and distance, as in the following example, observing to add an half of the differences to the numbers in the lesser column, and to subtract it from those of the greater, in such a manner, as that the numbers may be altered nearly in proportion to their corresponding distances.

#### EXAMPLE.

1	Field Note	5.	Fr	om the	Tabl	es.		Balar	ced.	
No	Courses.	Per	N.	S.	E.	w.	N.	S.	E.	W.
1	S. 40 W.	70		53.6	1	45.0	Serie Contract	5.36	13	45.0
2	N. 45 W.	89	62.9		191	62.9	€3,0	-		62.9
3	N. 36 E.	125	101.1		73.5		101.2	150	73.5	
4	North.	54	54.0	16	1	100	54.0			
5	S. 81 W.	186	F73	29.1	183.7	12	1	29.0	183.6	10
6	S. 8 W.	137	3	135.7		19.1	173	135.0	PEG.	19.2
7	West.	130	200			130.0				130.0
-		P. 2.69	218.0		257.2 257.0	257.0	218.2	218.2	257.1	257.1
			Diff,	.4	.2	-40				
			Diff	.2	.1	1				

The latitudes and departures being thus balanced, proceed to insert the meridian distances by the above method, where we will still make use of the same field-notes, only changing chains and links into perches and tenths of a perch. Then by looking along the column of departure, it is easy to observe, that in the columns of east-

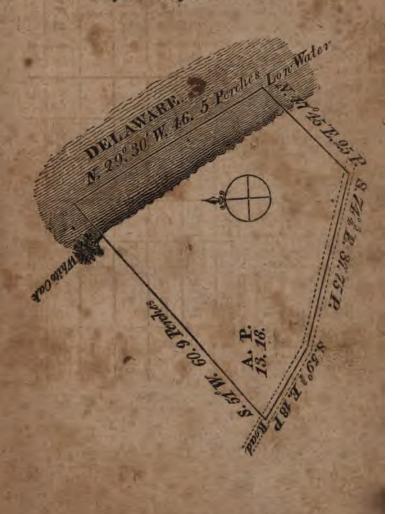
ing, opposite station 9, all the eastings may be added, and the westings subtracted, without altering the denomination of either. Therefore, by placing 46.0, the east departure belonging to this station in the column of meridian distances, and proceeding to add the eastings and subtract the westings, according to the rule already mentioned, we shall find that at station 8, these distances will end in 0.0, or a cypher, if the additions and subtractions be rightly made; then multiplying the upper meridian distance of each station, by its respective northing or southing, the product will give the north or south area, as in the examples already insisted on, and which is fully exemplified in the annexed specimen. When these products are all made out, and placed in their respective columns, their difference will give double the area of the plot, or twice the number of acres contained in the survey. Divide this remainder by 2, and the quotient thence arising, by 160, the number of perches in an acre, then will this last quotient exhibit the number of acres and perches contained in the whole survey; which in this example, may be called 110 acres, 103 perches, 110 aeres, 2 quarters, 23 perches.

# Field-Notes of the two foregoing methods, as practised in Pennsylvania, cast up by Perches and tenths of a Perch.

Dist	N.	S.	E.	W.	M.D.	N. Area	S. Areas.
54.8	14.2		52.9		253.3 283.2	3341.26	
41.2	38.5		14.4		302.6 317.0	11680.36	
54.8			64.8				
14.12		117.7		77.9	368.7 290.8		43395.99
64.0		15.5		62.1	228.7 166.6		3544.35
36.0	36.0		T				
46.4	110	4.9	Ţ	46.1	120.5 74.4		590.45
46.4	27.8			37.2	37.2 00.0	1634.16	
76.8	61.5		46.0		46.0 92.0	2829.00	
56.0	51.7		214		113.4 134.8	5862.76	
480		11.5	46.7				1996.50
43.4		429		11.2	217.0 205.8		9092.30
₹.5		588		117	197 1 152 4		7531.68
	229,8	222,8	246,2	246,2		35745 16	65151.17 3-745.16
					;		35466.01
	54.8 41.2 54.8 14.12 54.8 64.0 46.4 46.4 46.4 46.4 46.4 46.4 46.4 46.4 46.4 46.4	36.0 36.0 36.0 46.4 27.8 61.5 56.0 51.7 48.9 43.4		.54.8 14.2 52.9 .41.2 58.6 14.4 .54.8 . 64.8 .14.12 117.7 .64.0 15.5 .36.0 36.0 .46.4 4.9 .46.4 27.8 .76.8 61.5 46.0 .56.0 51.7 21.4 .48.0 11.5 46.7 .43.4 42.6	.54.8     14.2     52.9       .41.2     38.5     14.4       .54.8     . 64.8       .14.12     117.7     77.9       .64.0     15.5     62.1       .36.0     36.0     46.1       .46.4     27.8     37.2       .76.8     61.5     46.0       .56.0     51.7     21.4       .48.0     11.0     46.7       .43.4     41.9     11.2       .21.5     58.8     11.7	.54.8         14.2         52.9         253.3           .41.2         38.5         14.4         302.6           .54.8         .64.8         381.8         446.6           .44.12         117.7         77.9         368.7           .64.0         15.5         62.1         228.7           .66.0         166.6         166.6         166.6           .46.4         4.9         46.1         120.5           .76.8         61.5         46.0         92.0           .56.0         51.7         21.4         113.4           .48.0         11.0         46.7         228.2           .43.4         41.9         11.2         205.8           .21.5         58.8         11.7         197.1           .25.5         58.8         11.7         197.1	34.8     14.2     32.9     983.2     3341.26       341.2     38.6     14.4     362.5     11680.36       54.8     64.8     381.8     446.6       14.12     117.7     77.9     368.7       290.8     64.0     15.5     62.1     228.7       36.0     36.6     166.6     53.7.60       46.4     4.9     46.1     120.5       76.8     61.5     46.0     92.0     2529.00       56.0     51.7     21.4     113.4     5852.76       48.0     11.9     46.7     151.5     228.2       43.4     41.0     11.2     217.0     205.8       21.5     58.8     11.7     197.1     152.4       229,8     229,8     246,2     246,2     35745.16

A piece of woodland belonging to Nic's Haliday, esq. situated on the banks of the Delaware, in Pensboro' Manor, Bucks County, surveyed by Isaac Hicks assisted by T. Hamilton, November 21, 1798.

By the Pennsylvania Method.

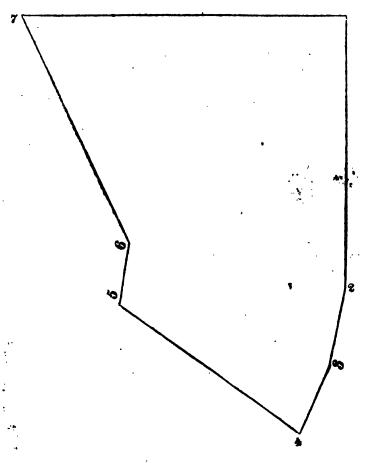


Content of the above survey by the Pennsylvania method.

18.08 Ans.		Acres 13	_							
	4)52 18	.₩r	•							
	40)209 8.085	<u>*</u> (0);			•					
- '	1)4196.17	<b>w</b> -								
2625.78	6821.95 2625.78		70.34	57.80 70.34		<b>57.30</b>	~~.			
	117.73 94.78 4765.71	117.73 94.78	22.95			848	N. 29 1 W. 46.5	₩.	29	Z
	122.25 140.68 2056.24	122.25 140.68		18.48		16.82	25.	자 전	N. 47	2
669 <b>f</b> 10		67.44 103.82		36.38	9.92		87.75	<b>년</b> 사º	8. 74	ğΩ
140.70		15.53 31.06		15.53	9.06		18.	하6 [자	8. 59	ço
1815.98		47 39 00.00	47.39		88.82		60.9	8. 51° W.	<b>51</b> °	œ
S. Area.	N. Area.	M. D	W.	ís	ÇOR	×	Dist.	<b>&amp;</b>	Courses.	1

A piece of ground in Lower Dublin Township, Philadelphia County, belonging to George Vandergrift.

Pennsylvania Method.



Courses.	Dist	, N.	S.	E	w.	M.D.	N.Are	يتخد
5. 47" { W	28.5		19.34		20.85	356.7 135 2		. : bi.E
5. 61° 1 W.	8.		3 85		7.91	28 3; 21.50		103.34
B. 71"   W.	15.		2.54		7.59	13.71		SLE
N. 7" { W.	23.5	23.29			3.06	3.06 0.00	71.26	
N. 58º I.	1.9	3.65		5.85		5.85 11.70	21.35	
N. 97º 1 E.	kn,	24.06		9.84		21.54 31.38	518.25	-
440 E.	34		25.27	22.82		54.20 77.02		1369.63
an de de Lagar Anna Anna de		<b>5∄.</b> 00	o0,1 c	38,51	38.51		610.86	2599 <b>7</b> 6 610 <b>.8</b> 6
								~

				$\frac{1}{2}$ )1988.90
	18			4 0)99 4.45
۱. ا	-			
•	()	34	Content.	4)24.34.25
				6 A 94 D

## OFF-SETS.

OFF-SETS are perpendiculars measured from the angular points of the land, to the stationray distance on either side thereof; to do which, observe the following

#### RULE.

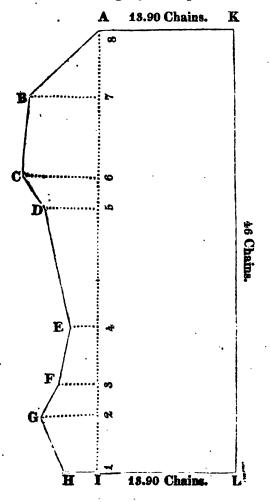
Rule a table, as hereafter exemplified; take the bearing of the line from which off-sets are to be made, and from this line make off-sets at right angles to each angular point on either side; set the distance to each off-set under the head of Base, and the distance of each off-set, under that of Perpendicular.

Then, to find the area of these off-sets,

Set the firt base opposite to station 1, in the column headed Bases, and take the first base from the second, the second from the third, &c. and set the remainders, respectively, in said column; each of which will be the distance between the respective perpendiculars. Then add the first and second perpendiculars together, the second and third, third and fourth, &c. and set their sums respectively, in the column marked Sum of Perpendiculars. Then each of these numbers, multiplied in its respective base, will give the double area of the quadrilateral figure, and triangle, (by Problems 6 and 9, pages 107 and 110.

## EXAMPLE 1.

Let A B C D E F G H, be the boundary of a field, by which it is required to lay off a field containing 85A. 3R. 20P. in form of an oblong, by a line parallel to AI.



No.	Base. Ch.	Perp. Ch.	Bases.	Sum of Perpen	Double Area.
1	0.00	3.60	6.20	9.60	59.52
2	6.20	6.00	2.80	10.00	28.00
8	9.00	4.00	6.00	6.50	39.00
4	15.00	2.50	<b>12.</b> 80	7.80	99.84
5	27.80	5.30	2.70	13.30	35.91
6	30.50	8.00	8.50	15.00	127.50
7	39.00	7.00	7.00	7.00	49.00
8	46.00	0.00			

1)138.77 Sum.

A. 21,9385;

R. 3,7540

40

P. 30,1600

## · Area 21A. 3R. 30P.

A. R. P.

From 85 3 20

Take 21 8 30 Area of the off-sets.

Remains 63 3 30 To be laid off.

40)30

4)3.75

639.375 Square Chains.

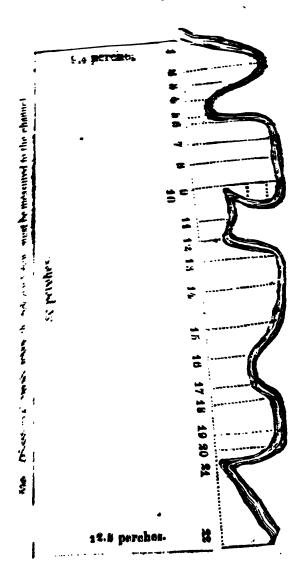
By Problem 4, page 105, divide thus: 46)589.875(13.90 ch. nearly, from A and I to K and L.



## OF OFF-SETS

#### Example 5.

buppose a mention bounder on a brook, as under specified, the area of water as required?



, . · ·

Note. The 1st perpendicular is set opposite the 1st base, because they form a triangle.

### Measured in Perches.

```
N. B. P. Bs S.P. D. A.
1 0.0 0.0 2.0 5.0 10.00
                      9.0
        2.0 5.0 0.5
       2.5
                             7.80
            4.0.1.5
                                                     0.8 1.12
        8:0
                            16.05
                                                           2.38
                                                      0.9 0.27
                      3.4 6.46
                                     43.10.00.0 0.0 0.00
   10 9.5 2 2 1.9
  12 13.0 1.4 1.0
                                                        4)3.77
                      6.4
  13 14.0 5.0 2.0 10.0 20.00
14 16.0 5.0 2.2 9 2 20.24
                                                           1.88
   15 18.2 4.2 2.0
  17 22.0 1.1 1.0
18 23.0 4.0 2.0
19 25.0 4.0 1.0
                            5.10
                      8.0 16.00
                      7.0 7.00
   20 26.0 3.0 0.3
                      3.0 0.90
  21 26.3 0.0 5.7
                      3.0 17.10
                                    Note. The perpendicu-
                                     lar opposite the 9th
                       1)180.22
                                     station, extends to
                                     the extreme point;
                                     and that opposite the 10th, to the nearest point. The offsets on the 9th station are as
                           90.11
                           01.88
Area of the off-sets. 91.99
              oblong. 355.2
                                     above.
                   4,0)44,7.19
                      4)11.7 P
                                12.8
                                  9.4
```

22.2

Area 2A. 3R. 7P. Ans.

32.

a) 710.4

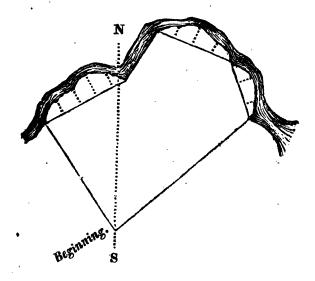
355.2

EXAMPLE 3.

With off-sets on the 2d. 4th. and 5th. boundaries.

No Bearings.	Dis. Ch.	N. L.	8. L.	E. D.	W. D.
1 N. 36 3 W.	<b>30.</b> 00	24.04			17.95
2 N. 56 ½ E.	21.60	12.00		17.96	
3 N. 26 ½ E.	13.44	12.01		6.00	
4 S. 71 ½ E.	18.96		6.02	17.98	
5 S. 26 ½ E.	13.46	;	12.04	6.00	
6 S. 45 W.	42.41		29.99	,	29.99
		48.05	48.05	47.94	47.94

Area 1152.20855 Square chains.



	No	Base.	Perp.	Bases	Sum of Pe.	Double Area.
	1	0.00	0.00	6.10	3.10	18.9100
ary.	2	6.10	3.10	4.05	5.45	22.0725
e d	3	10.15	2.35	3.98	5.21	20.4753
2d. Boundary.	4	14.08	2.86	5.12	5.06	25.9072
64	5	19.20	2.20	<b>2.4</b> 0	2.20	5.2800
1	6	<b>21.6</b> 0	0.00	0.00	0.00	0.0000
. (		0.00	0.00,	4.20	2.10	8.8200
dary	2	4.20	<b>2.1</b> 0	3.85	3.40	13.0900
Boundary	3	8.05	1.30	7.10	3 <b>.25</b>	<b>2</b> 8.07 <i>5</i> 0
4th.	4	15.15	1.95	3.81	1.95	7.4295
* 1	5	18.96	0.00	0.00	0.00	0.0000
ary.	1	0.00	0.00	5.12	2.05	10.4960
Boundary.	2	5.12	2.05	4.88	3.80	16.1040
	3	10.00	1.25	3.46	1.25	4.3250
6th.	4	13.46	0.00	0.00	o.u <b>o</b>	0.0000
					1/2	)175.9845

Area of the off-sets 87.99225 S.Ch. Map, 1152.20855

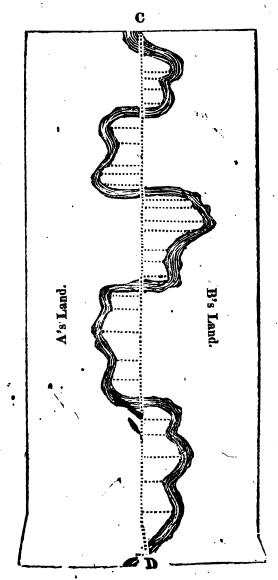
A. 124,020080

,0803**2**0

124A. 0R. 3.212800P. Answer.

### Example 4.

Suppose a water-course to be the line between the lands of A and B, as under specified; which they agree to straiten by a line from the point C to D. Query, which must pay the other, and for how much land?



## Off-sets on B to A.

## Off-sets on A to B.

N Base, Pr. B's, S.P D. A. 1 0.000.0001.864.14 7.7004 2 1.864.14 2.58 6.52 16.8216 3 4.442.381.67/5.24 8 7508 4 6.112.86[1.617.86] 12.6546 5 7.725.001.588.70 13.7460 6 9.303.70 1.10 3.70 4.0700 710.40  1 0.000.000.82[3.79] 3.1078 2 0.82[3.79] 1.98 6.55 12.9690 3 2.80[2.76] 3.257.56 24.5700 4 6.054.80[3.957.18] 28.3610 5 10.00[2.38] 2.82 6.19 17.4558 6 12.82[3.81] 3.78 3.81 14.4018 7 16.60	N Base, Pr. B's. S.P. D. A. 1 0.00 0.00 2.00 3.85 7.7000 2 2.00 3.85 0.50 6.81 3.4050 3 2.50 2.96 1.98 6.20 12.2760 4 4.48 3.24 1.45 6.56 9.5776 5 5.94 3.32 1.34 3.32 4.4488 6 7.28  1 0.00 0.00 0.57 5.70 3.2490 2 0.57 5.70 1.16 12 03 13.9548 3 1.73 6.33 1.87 14.63 27.3581 4 3.60 8.50 1.67 15.12 25.2504 5 5.27 6.82 2.93 10.02 9.8860 6 8.20 3.58 1.00 5.98 5.9800 7 9.20 2.60 2.41 6.22 14.9902 8 11.61 3.62 2.84 3.62 10.2808 9 14.445  1 0.00 0.60 2.50 4.13 10.3250 2 2.50 4.13 2.91 6.91 20.1081 3 5.41 2.78 3.15 7.98 25.1370 4 8.56 5.20 3.30 7.67 25.3110 5 11.36 2.47 4.34 6.37 27.6458
	6 16 20 3.90 5.03 3.90 19.6170 7 21.23 3.90 5.03 3.90 19.6170 148.2503 82.3044 A.6,59459 4 R.2,37836 40 6A. 2R. 15,13440P.

Answ. B must pay A for 6A. 2R. 15,1344P.

Note. The measures are taken in chains and links.

# DIVISION OF LAND.

### PROBLEM L

To cut off from a triangle any part thereof, by a line issuing from an angular point to the opposite side of the triangle.

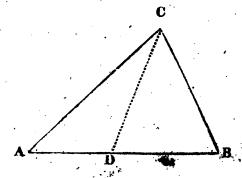
#### RULE.

As the area of the triangle, Is to the side the division is to fall on; So is the part to be cut off, To its proportion of that side,

## EXAMPLE.

Admit the triangle ABC, to contain 650 square perches, and 290 of them is required to be cut off towards A, by a line issuing from the point C, on to the line AB, which is 40 perches long.

Sq. Pr. Pr. Sq. Pr. As 650 . . 40 :: 290 . . 17.84 perches from A to D.



### PROBLEM II.

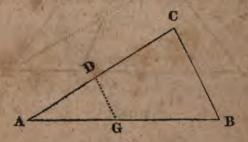
To cut off from a Triangle, any Part thereof, by a Line running parallel to one of it's Sides.

#### RULE.

As the area of the triangle,
Is to the square of one side the division line is to be on;
So is the area of the part to be taken off,
To the square of its proportion of that side:
The square-root of which will be the length required.

#### EXAMPLE.

Suppose the triangle ABC to contain 500 square perches, and it is required to cut off 120 towards A, by a line parallel to BC; the line AB being 40 perches long, and AC 36.



 $40 \times 40 = 1600$ , square of AB.

As 500 . . 1600 : : 120 . .  $\sqrt{384} = 19.6$  nearly, the distance from A to G.

Then as { AB . . AG : : AC . . AD. 40 . . 19.6 : : 36 . . 17.64 Perches.

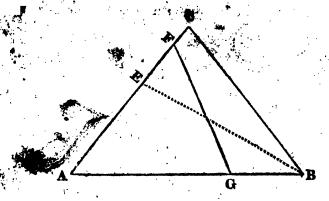
#### PARBLEM III.

To cut off from a Triangle, any Part thereof, by a Line issuing from a given Point in one of it's Sides.

#### EXAMPLE

In the annexed triangle, containing 800 square perches

AB is 50 perches long, and AC 40, and it is required to
it off towards A, 500 square perches, by a line issuing
in the point F 86 perches from A.



## RULE.

By Problem 1, cut off 500 square perches, by a line from B to E.

AC AE

Thus: As 800 . . 40 . : 500 . . 25.

AF AR AE AG

Again. As 36 . . 50 :: 25 . . 34.72 The answer.

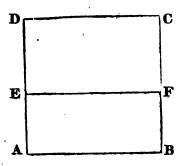
#### PROBLEM IV.

To cut off, from a Square, or Oblong, any Part thereof.

Let ABCD be a square, each side whereof is 20 chains, and it be required to cut off, toward AB, 160 square chains, by a line parallel to AB.

Note. By Problem 4, page 105, lay off the proposed quantity, thus:

AB AE or BF 20)160( 8.6 Chains.



The method of dividing land, in other forms, will be shewn in examples as they occur.

# Example 1.

#### Taken in Perches.

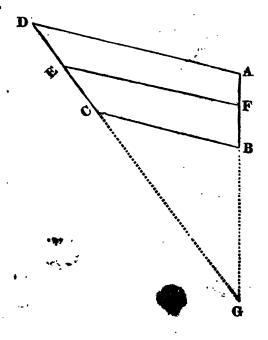
A field, bounded as under specified, is to be disided into two equal parts, by a line parallel to AD or BC. Required the distance from AB that the division line EF must run.

Stations.	Bearings.	D. Pr.	N. L.	S. L.	E. D	W. D.
AB	South.	29.6		<b>29.</b> 6		
BC	N. 80° W.	60.0	10.4			59.1
CD	N. 39 ½ W.	45.5	34.7			28.6
DA	8. 80 E.	89.4		15.5	87.7	
			48.1	45.1	87,7	87.7

Area of the Map ABCDA 2174.62 square perches.

1 to be taken off 1087.31 square perches.

Note. The learner is requested to work all the operations in full, in this and the following examples.



Continue AB and DC, until they intersect at G; then in the triangle CBG, are given the side CB 60 perches, and by the bearings of the lines all the angles, viz. CBG 100°, CGB 39° 30′, GCB 40° 30′, to find the other requisites; and by Case 1, Oblique Angled Trigonometry, page 81, the side BG is found to be 61.26 perches; then by Problem 10, page 111, find the area of the triangle CBG.

As radius 90°	10.00000
Is to CB 7 60	1.77815
BG 5 61.26	1.78718
So is sine angle B 100°	9.99835
	13.55868
	10.00000
To the double area 3619.8	3.55868

Area of CBG

1809.9 square perches.

Add

 $1087.31 = \frac{1}{3} \text{ the area of the map}$ 

Area of EFG = 2897.21

Then to find GF, by Problem 2, page 173.

CGB sqr. BG EGF sqr. of FG 2
As 1802.9 . . 3753 : : 2897.21 . . 6030.9662 

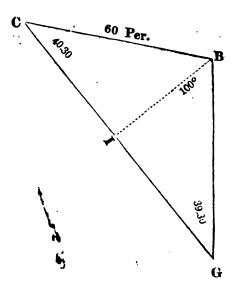
GF = 77.65 perches, nearly,

Then  $\begin{cases} GF \longrightarrow GB = BF \\ 77.65 \longrightarrow 61.26 = 16.39 \end{cases}$  perches, the answer.

Draw FE parallel to BC, and it is done as required.

By the application of this method, a tract of hand may be divided accurately, in any proportion, by a line run.

ning in any assigned direction, where the triangle, formed by continuing the lines, until they intersect (as the preceding) is not large; but in practical operations, it frequently happens, that the logarithm of the double area, is more than a number can be found for in the tables in common use, without taking proportionals, which is troublesome, and uncertain to be true; as is the case in the present instance. Therefore, in order to give a clear rule, invariably true in all cases, I bring forward the preceding triangle.



Always find the longest side of the triangle, for a base, as by Case I, Oblique Angled Trigonometry, page 81, CG is found to be 92.89 perches; then let fall a perpendicular thereon from the opposition angular point, as BI;

again, by Case 1, Right Angled Trigonometry, page 68, this perpendicular is found to be 38.97 perches, and being multiplied into the base, gives 3619.9 square perches, the double area of the triangle, the same as before nearly, and the small difference is owing to the logarithm being larger than a number could be found for in the table: this being done, proceed to find the place of the division line, as before taught. Or,

Note. When the three sides of an oblique angled triangle are given, to find the area, the bases made by the perpendicular, as above, may be found by the rule to Case 6, Oblique Angled Trigonometry, performing the operation either by the logarithms, or arithmetically; then find the perpendicular, by the Note to Problem 13, page 29; and thence, the area, more concise and true, than taught in Gibson's Surveying.

As CG Diff. of CB & BG CB & BG
92.89 . 1.26 : 121.26 . 1.64 Diff. of
CI and IG.

Then from  $\frac{1}{2}$  CG = 46.44, take  $\frac{1}{2}$  the difference .82, leaves 45.62 CI.

Again, the square of CI is 2081.1844. The square of CB is 3600. Their difference is 1518.3156; the square root of which is 38.97 BI, the same as before.

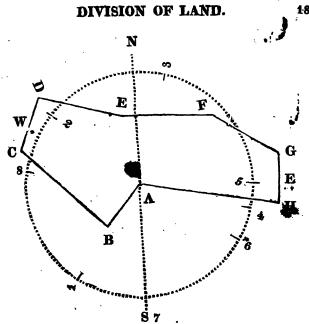
I shall here give another method to make a Map from the Field Notes, which will be found very easy and convenient in many instances, although practised by none that I know of.

#### RULE.

Draw a meridian, and on it describe a circle with the chord of 60° in the compasses; then take in the compasses, from the same line of chords, the several bearings, and lay them on the circle from said meridian, the northerly from the top, and the southerly from the bottom, and number them 1, 2, 3, ½, &c. as in the annexed example; then from the centre (which will always be the place of beginning) through No. 1, draw a line, on which lay the first distance; then lay a parallel ruler on the centre, and No. 2, and open it to the second station, and there draw a line, and lay off the second distance, and so proceed with every number, remembering to draw the line northerly or southerly, as indicated by the bearing, and if the last three points be in a range, it denotes the work to be true.

Property B	Ch.	
AB S. 35° 1 W.	5.607	
BC N. 45 W.	12.18	
CD N. 15 1 E.	5.40	
DE S. 77 E.	8.00 Field Note	
EF S. 87 1 E.	10.75 Frield Note	3.
FG S. 60 E.	7.40	
GH South.	5.48	
HA N. 85 W.	14.60	

(See the following Figure.)

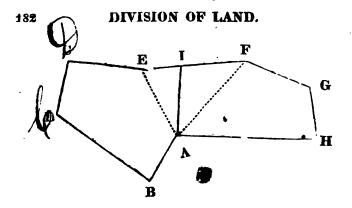


EXAMPLE 2.

Required the area of the preceding Map, and to cut off 10A. 3R. 24P. to the westward, by a line issuing from the point A, and to find the bearing and distance of the division line.

	Bearings.			S. L.	E. D.	W. D.
	S. $35\frac{1}{4}$ W			4.57		3.23
	N. 45 W					8.61
CD	N. 15 1 E	5.40	5.20		1.44	
	S. 77 E.				7.80	
	N. 87 1 E.				10.73	
FG	S. 60 E.	7.40		3.70	6.41	
				5.48		
HA	N. 85 W	14.60	1.27			14.54
	•	•	15.55	15.55	26.38	26.38

Area 21A, 1R. 35P.



Find the area of ABCDEA, supposing that to be nearest the quantity proposed.

Stations	Bearings.	Dist.	N. L.	S. L.	E. D.	<b>W</b> . D.
AB	S. 35 ½ W.	5.60		4.57		3.23
BC	N. 45 W.	12.18	8.61			8.61
CD	N. 15 ½ E.	5.40	5.20		1.44	
DE	S. 77 E.	8.00		1.80	7.80	
EA	S. E.		•	7.44	2.60	

Area 10A. 3R. 24P. — 9A. 1R. 23P. = 1A. 2R. 1P. = 1.50625A. to be taken out of the triangle AEFA.

Find the area of AEFA.

Stations	Bearings.	Dist.	N. L.	S. L.	E. D.	W.D.
AE	N. W.		7.44			2.60
EF	N. 87 ½ E.	10.75	0.47		10.73	
FA	S. W.	ļ <u>.</u>		7.91		8.13

Area 4.05 acres.

Then, by Problem 1, page 172.

To find the bearing and distance of the division line Al or IA.

Stations	Bearings.	Dist.	N. L.	S. L.	E. D.	W.D.
AE	as before.		7.44	13	To F	2.60
EI	N. 87 ½ E. 3	.99	0.17		3.99	811
IA	s. w.		To the	7.61		1,39

With the difference of latitude 7.61 chains scuth, and departure 1.39 chains west; the bearing and distance of the division line is found to be, viz.

EXAMPLE 3.

Taken in Perches.

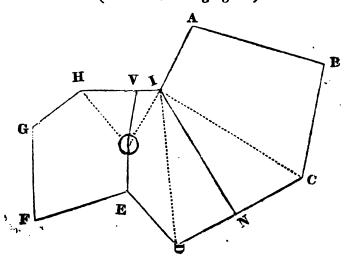
Let ABCDEFGHIA be a tract of land, to be divided into two equal parts, by a line from the point I. Required the bearing and distance of the division line.

Again; it is required to cut off 38 acres,  $16\frac{1}{2}$  perches to the south end of this tract, by a line running from E. due W. 40 perches, to a well. The bearing and distance of the division line from the well to the opposite boundary is required.

The field notes are as under.

Stations	Bearings.	D. Per.	N. L.	S. L.	E. D.	W. D.
AB	N. 19° E.	108.	102.1		85.2	
BC	S. 77 E.	91.		20.5	88.7	
CD	S. 27 E.	115.		102.5	52.2	•
DE	S. 52 W.	58.	¥	35.7		45.7
EF	S. 15 ½ E.	76.		73.2	20.3	
FG	West	70.9				70.9
GH	N. 36 W.	47.	<b>58.0</b>			27.6
н	North.	64.3	64.3			
	N. 62 1 W.		•		_	52.2

## (See the following figure.)



#### Find the area of IABCI.

Stations.	Bearings.	Dist.	N. L.	8. L.	E. D	W. D.
IA	N. 62° ½ W.	59.	27.5			52.2
AB	N. 19 E.	108.	102.1		35.2	
BC	S. 77 E.	91.	,	20.5	88.7	
CI	s. w.			109.1		71.7

Area 8722.3 perches.

From half the area of the map, 12192.9 perches.

Take the above area,

8722.3 perches.

Leaves less than half

3470.6

#### Find the area of ICDI.

Stations.	Bearings	Dist.	N. L.	S. L.	E.D.	W. D.
IC	N. E.		109.1		71.7	
CD	S 27 E	115.		102.5	52.2	
DI	s. w.			6.6		123.9

#### Area 6522.1

As { ICDI .. CD :: ICNI .. CN | 6522.1 .. 115 :: 3470.6 .. 61.19 } Perches.

A a

To find the bearing and distance of the division line NI or IN.

Stations	Bearings.	Dist.	N. L.	S. L.	E. D.	W.D.
IC	as before		109.1		71.7	
CN	S. 27° E.	61.2		54.5	27.8	
NI	s. w.			51.6		99.5

With the difference of latitude 54.6 south, and departure 99.5 perches west; the bearing and distance is found to run, viz.

Answer. 
$$\left\{ \begin{array}{l} NI & S. & 61 & \frac{1}{4} & W. \\ IN & N. & 61 & \frac{1}{4} & E. \end{array} \right\}$$
 113.5 Perches.

This completes the first division, as required.

For the southern division.

Find the area of OEFGHO.

Stations	Bearings.	D. P.	N. L.	S. L.	E. D.	W.D.
ΘE	East.	40.			40.0	
EF	S. 15° ½ E.	76.		73.2	20.3	
FG	West.	70.9				70.9
GH	N. 36 W.	47.	38.0	2		27.6
HŌ	N. E.		35.2		38.2	

Arca 5270.5 Perches.

From 38A. 0R. 16.5P. = 6096.5P.

Take the above area = 5270.5

Leaves 826. Perches.

## Find the area of OHIO.

Stations.	Bearings	Dist.	N. L.	S. L.	E. D.	W.D.
OН	s. w.	17-1	Ter	35.2		38.2
HI	North.	64.3	64.3		83	
10	S. E.			29.1	38.2	

Area 1228.13 Perches.

HOIH .. HI :: HOVH .. HV

1228.13 . . 64.3 :: 826 . . 43.24 Perches.

Find the bearing and distance from the Well to V.

Stations.	Bearings.	Dist.	N. L.	S. L.	E. D.	W.D.
OH	as before		1.0	35.2		38.2
HV	North.	43.2	43.2	1		
VO	S. E.			8.0	38.2	7

With the difference of latitude and departure of VO, the bearing and distance of the division line from the Well to the opposite boundary, is found to run, viz.

Which completes the division as required.

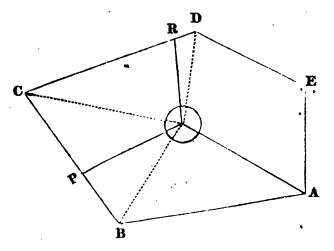
## EXAMPLE 4.

Admit a field bounded, as after specified, is to be divided into three equal parts, so that each may have the benefit of a well therein, and which bears from the place of beginning A, N. 60°, W. 14.35 chains, and is to be the first

division line. The quantity in each part, the bearing and distance of the other division lines are demanded.

Stations.	Bearings.	Dis.Ch.	N. L.	S. L.	E. D.	W. D.
AB	S. 80° W.	19.51		3.39		19.21
BC	N. 36 ½ W.	16.61	13.39			9.82
CD	N. 70 E.	18.90	6.46		17.76	
DE	S. 63 ½ E.	12.62		5.68	11.27	
EA	South.	10.78	•	10.78	•	e D

Area 38A. 3R. 17P.  $\div$  3 = 12A. 3R. 32P.



Find the area of OABO.

Stations.	Bearings.	Dist.	N. L.	S. L.	E. D.	W. D.
ΘA	S. 60° E.	14.35		7.17	12.42	
AB	S. 80 W.	19.51		3.39		19.21
B⊙	N. E.		10.56		6.79	

Area 8.99 acres.

From one third of the map, viz. 12.95 acres.

Take OABO

8.99

Leaves BPOB

3.96

#### Find the area of OBCO.

Stations.	Bearings.	Dist.	N. L.	S. L.	E. D.	W. D.
⊙В	S. W.			10.56		6.79
BC	N.361W.	16.61	13.39	•		9.82
Co	S. E.		<u> </u>	2.83	16.61	

Area 9.73 acres.

©BC⊙.. BC :: BP⊙B.. BP 9.73 .. 16.61 :: 3.96 .. 6.76

To find the bearing and distance of PC or OP.

S	tations.	Bearings.	Dist.	N. L.	S. L.	E. D.	<b>w</b> . <b>D</b> .
	⊙В	as before.			10.56		6.79
-	BP	N. 361 W.	6.76	5.45			4.00
	Po	N.E.		5.13		10.79	

With the difference of latitude and departure for  $\mathbf{P} \odot$  is found for the answer.

Answer. \[ \begin{cases} P \circ \text{runs N. 64° 39' E.} \\ \circ P \text{runs S. 64 39 W.} \end{cases} \] 11.86 chains.

From  $\bigcirc BC\bigcirc = 9.73$ Take  $BP\bigcirc B = 3.96$ 

Leaves POCP = 5.77

### DIVISION OF LAND.

From  $\frac{1}{3}$  of the map = 12.95 Take POCP = 5.77 Leaves CORC = 7.18 acr

#### Find the area of OCDO.

St	ations.	Bearings.	Dist.	NL	S. L.	E. D.	<b>W</b> . D.		
	⊙C	N. W.		2.83			16.61		
	CD	N. 70 E.	18.90	6.46		17.76			
	<b>D</b> O,	s. w.			9.29		1.15		
	Area 7.9 acres								

As { OCDO . . CD : : CORC . . CR 7.9 . . 18.9 : : 7.18 . . 17.17

To find the bearing and distance of RO or OR.

	Stations.	Bearings.	Dist.	N. L.	S. L.	E. D.	W. D.
•	⊙C	as before.		2.83			16.61
•	CR	N. 70 E.	17.17	5.87		16.18	
•	RO	S. W.			₹8.70	0.48	7

10.00000 9.68124

> 9.68124 0.93952

To tangent bearing 3° 9' 8.74172

I have set down the above statement, as the departure is a negative number. See page 55.

The distance being found, as before, we have

Answer. \{ RO runs S. 3° 9' W. \} 8.71 ehains.

#### EXAMPLE 5.

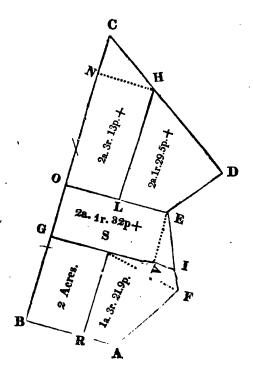
Admit a piece of land, bounded as after specified, is to be divided thus, viz. by a line GI parallel to AB, to issue from the point G, in the line BC 5.45 chains from the corner B, and on the line BG to lay off two acres in a parallellogram, and calculate the remainder cut-off by this division line GI.

Again; a division line to issue from the point E, to the opposite boundary BC, and to run parallel to AB, and another division line to issue from the point H, in the line CD 4.16 chains, from the corner C, and to run parallel to CB, until it intersects the former division line. Required the area of each piece separately.

The field notes.

Ch.

AB N. 63° W. 5.56 BC N. 27 E. 18.56 CD S. 27 E. 10.81 DE S. 62½ W. 4.05 EF S. 5¼ W. 5.00 FA 59° 18′ W. 5.03



The Map being made, draw GI as proposed, and on BG lay off two acres, by the parallel line RS, which by Problem 4, page 105, will be found to be 3.67 chains nearly from the line BG; then,

Now, to find the distances SI and IF, find the bearing and distance of SF.

Stations	Bearings.	Dist.	N. L.	S. L.	E. D	W.D.
FA	S. 59° 18' W.	5.03		2.57		4.33
AR	N. 630 W.	1.89	0.85	110	60	1.68
RS	N. 27 E.	5.45	4.85		2.47	90
SF	S. E.	5	8	3.13	3.54	

With the difference of latitude and departure, SF is found to bear S. 48° 31′, E. 4.72 chains; then in the triangle SFI, are given the angles by the bearing of the lines, viz. FSI 14° 29′, SFI 55° 46′, SIF 111° 45′, and the side SF 4.72 chains, to find the sides SI and IF; and by Case 1, Oblique Angled Trigonometry, they are found to be SI 4.10 chains, IF 1.27 chains; then to find the area of ARSIFA, are the following field notes.

Ch. AR N. 63° W. 1.89 RS N. 27 E. 5.45 SI S. 63 E. 4.10 >Area 1A. 3R. 21.9 Perches. IF S. 51 W. 1.27 FA S. 59.18 W. 5.03

From the point E, let fall a perpendicular on the line GI; then in the right angled triangle VEI, are given the hypothenuse 3 chains, 73 links; and by the bearings of the lines, the angle VEI 21° 45′, VIE 68° 15′, to find the base VI, 1 chain, 38 links, and perpendicular VE, 3 chains 46 links = GO.

$$GI - VI = GV = OE$$
  
7.77 - 1.38 = 6.39 = 6.39 chains.

To find the area of the Trapezoid IGOE.

$$\begin{cases} 1G + E0 \times by \frac{1}{2} OG = Area. \\ 7.77 + 6.59 \times \end{cases} 1.73 = AA. 1R. 32P.$$

$$BG + GO = BO$$

$$5.45 + 3.46 = 8.91 \text{ chains.}$$

$$And BC - BO = OC$$

$$18.56 - 8.91 = 9.65 \text{ chains.}$$

From the point H, let fall a perpendicular on the line OC; then in the right angled triangle HNC, are given the hypothenuse 4 chains, 16 links, and by the bearings of the lines, the angle NCH 54°, and NHC 36°, to find the base NC, 2 chains, 44 links, and perpendicular NH = LO, 3 chains, 37 links.

Then OC — NC = ON = HL  

$$9.65 - 2.44 = 7.21 = 7.21$$
 chains.

To find the area of the Trapezoid OCHL.

$$\begin{cases}
0C + HL \times by \frac{1}{2} LO = Area. \\
9.65 + 7.21 \times 1.685 = 2A. 3R. 14P.
\end{cases}$$

To find the area of ELHDE, the following notes arise.

				CII.	
$\mathbf{EL}$	N.	<b>63°</b>	w.	3.02	
LH	· <b>N.</b>	27	E.	7.21	Area 2A. 1R. 29 Per. nearly.
HD	s.	27	E.	6.65	Area zA. 1R. 29 Fer. nearly.
				4.05	

#### EXAMPLE 6.

Suppose a survey to be made as follows, viz.

AB east 20. chains,

BC north 18. chains,

CD north 30° west, so far as will inclose  $120\frac{1}{2}$  acres, the north boundary DE, to be due west 17. chains from the north 30° west line. Required the distance on this line; also the bearing and distance of the closing line EA, to include  $120\frac{1}{2}$  acres.

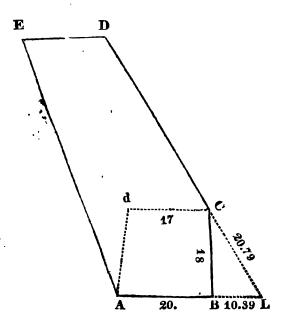
Note. The propriety of this example being under the head of Division, may, perhaps, be doubted by some; but the calculations are so nearly allied thereto, that I thought it admissible.

From the point C, draw Cd due west 17 chains; then by problem 9, page 110, the area of ABCdA, is found to be 33.3 acres; continue AB, and from the point C, reverse CD, to meet AB in the point L; then in the right angled triangle BCL, are given the perpendicular BC, 18 chains, and the angles, by Position 4, page 12, and Po-

sition 2, page 10, to find the base BL 10.39 chains, and hypothenuse CL 20.79 chains; then by Position 6, page 13, the area of the triangle BCL, is found to be 9.35 acres.

And 
$$\begin{cases} ABCdA + BCLB = ALCdA \\ 83.3 + 9.35 = 42.65 \text{ Acres.} \end{cases}$$

Then say,



From thence the following notes, to prove the work, by calculating the quantity of land thereby inclosed, and to find the bearing and distance of the closing line EA.

Stations	Bearings.	D. C.	N. L.	S. L.	E. D.	W. D.
AB	East.	20.00			20.00	
BC	North.	18.00	18.00			
CD	N. 30 W.	42.50	\$6.80			21.25
DE	West.	17.00				17.00
EA	S. E.			54.80	18.25	

With the difference of latitude and departure of the closing line EA, it is found to run S. 18° 25', E. 57 chains, 76 links.

# INTERSECTIONS.

INTERSECTION is the bearings of an object from two stations; the bearing and distance of the stations being known, the distance to the object may be found: thence the plan of a field may be taken by intersections, when all the corners thereof can be seen from two stations, and the area of the field determined by calculations: an example of which follows; the bearing and distance between the two stations, and the bearings from them to the several corners of the field, being as in the following table.

The stations H and I, North and South 28 chains.

No.	Bearings.	No.	Bearings.
HA	S. 81° ½ E.	IA	N. 28° ½ E.
HB	S. 85 3 E.	IB	N. 42 ½ E.
HC	S. 68 E.	IC	N. 51 ½ E.
	S. 58 ½ E.	1000000	The second second second
HE	S. 35 ½ E.	IE.	82 ½ E.
HF	S. 28 ½ E.	IF	N. 73 ½ E.
HG	S. 40 E.	IG	N. 60 E.

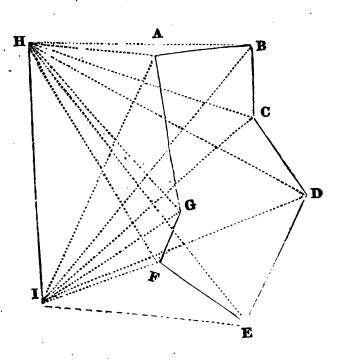
By Case 1, Oblique Angled Trigonometry, find the distance from either station, as from I, to the several corners of the field, thus:

### To find IA.

As sine [A.	70°	9.97299
. •	28 ch.	1.44716
So is sine [H.	81° 30′	9.99520
		11.44236
		9.97299
To IA.	29.47	1.46987
<b>!</b>	To find IB.	
As sine [B	52	9.89658
Is to IH	28	1.44716
So is sine [H.	85.45	9.99880
		11.44596
		9.8 <b>96</b> 53
To 1B	35.43	1.54943

(See the following Map.)

# THE MAP.



# To find IC.

As sine [C Is to IH So is sine [H	60.30 38	9.93970 1.44716 9.96717	
20 12 91110 [		11.41433 9.93970	
To IC	<b>29.</b> 83	1.47463	

## To find ID.

As sine [D 50.45	9.88896
Is to IH 28	1.44716
So is sine [H 58.1.5	9.92960
•	11.37676
V	9.88896
To ID 30.75	1.48780
	***************************************

## To find IE.

9.86413
1.44716
9.76395
11.21111
9.86413
1.34698

## To find IF.

As sine [F 78	9.9 <b>9040</b>
Is to IH 28	1.44716
So is sine [H 28.30	9.67866
•	11.12582 9.99040
To IF 13.66	1.18542

`**C** e

### To find IG.

As sine [G 80.	<b>9.9988</b> 5
Is to IH 28	1.44716
So is sine [H 40.	9.80807
	11.25523
	9.99335
To IG 18.27 a	1.26188

The bearing and distance from the station I, to each corner of the field, being ascertained, find the difference of latitude and departure of each line inclosing the field; and A being the corner of the survey to begin with. Reverse the line from the next succeeding corner to the point I, &c. as follows.

To find the difference of latitude and departure of AB.

Stations	Bearings.	Dist.	N. L.	S. L.	E. D.	W. D.
BI	S. 42° ¼ W.	35.43		26.23		23.82
IA	N. 28 ½ E.	29.47	25.90		14.06	
AB	N. E.		0.88		9.76	

## To find the difference of latitude and departure of BC.

Stations	Bearings.	Dist.	N. L.	S. L.	E. D.	W. D.
CI	8. 51 ½ W.	29.88		18.57		23.35
· IB	N. 42 ‡ E.	35.43	26.23		23.82	
BC	8. W.			7.66	,	0.47

## To find the difference of latitude and departure of CD.

Stations.	Bearings.	Dist.	N. L.	S. L.	E. D.	W. D.
DI	S. 71 W.	30.75		10.01		29.08
IC	N. 51 ½E.	29.83	18.57		23.35	
CD	S. E.			8.56	5.73	

## To find the difference of latitude and departure of $\mathbf{DE}$ .

Stations.	Bearings.	Dist.	N. L.	S. L.	E. D.	<b>W</b> . D.
EI	N. 821W.	<b>22.2</b> 3	2.90			22.04
1D	N. 71 E.	30.75	10.01		29.08	
DE	s. w.			12.91		7.04

## To find the difference of latitude and departure of EF.

S	tations.	Bearings.	Dist.	N. L.	S. L.	E. D.	W.D.
_	FI	S. 73 ½ W.	13.66	•	3.88		13.09
_	IE	S. 82 ½ E.	22.28		2,90	22.04	-
	EF	N. W.		8.78			8.95

## To find the difference of latitude and departure of FG.

Stations.	Bearings.	Dist.	N L.	S. L.	E. D.	W. D.
GI	S. 60 W.	18.27		9.13		15.82
IF	N. 73 ½E.	13.66	3.88		13.09	
FG	N. Fy.		5.25	,*	2.73	

To find the difference of latitude and departure of GA.

S	ations.	Bearings.	Dist.	N. L.	S. L.	E. D.	W. D.
i	AI	8. 28 W	29.47	FE	25,90	100	14.06
Ī	IG	N. 60 E.	18.27	9.13	12	15.82	150
-	GA	N. W.	W 7	16.77		137	1.76

This being done, proceed to bring into a traverse table, the difference of latitude and departure of the several boundary lines, viz. AB, BC, &c. In the column for bearings, put the letters to denote the bearing of each line, and leave a blank for the degrees; also the distance column leave blank.

## THE TRAVERSE TABLE.

Stations	Bearings.	D. C.	N. L.	S. L.	E. D.	W. D.
AB	N. 88° 4/ E.	9.77	0.33	T. P.	9.76	M
BC	S. 3.31 W.	7.66		7.66		0.47
CD	S. 33 48 E.	10.30		8.56	5.78	
DE	S. 28.36 W.	14.71		12.91	POLL.	7.04
EF	N. 52.51 W.	11.22	6.78		The same	8.95
FG	N. 27.28 E.	5.92	5,25	207	2.73	
GA	N. 5.59 W.	16.86	16.77			1.76
		4018	29.13	29.13	18.22	18,22

Area 28A. IR. 10. Nearly

With the difference of latitude and departure of AB, find the bearing and distance, thus:

# To find the bearing.

As the diff. of latitude .33 —	<b>1.51851</b>
Is to the dep. 9.76	0.98945
So is radius 90°	10.00000
	10.98945
	1.51851
To the tangent of the course #8.4	11,47094
To find the distance.	
As the sine of course 88.4	9.99975
Is to radius 90°	10.00000
So is the dep. 9.76	0.98945
	10.98945
•	9.99975
To the distance 9.77	.98970
• •	•

# To find the bearing of BC.

As the diff. lat. 7.66		0.88423
Is to the dep47 -		1.67210
So is radius 90	1.46	10.00000
		9.67210
•		0.88425
To the tangent of bearing	3° 31′	8.78787

## To find the distance.

As the sine of course 3.31	8.78770
Is to radius 90°	10.00000
So is the departure .47 -	1.67210
	9,67210
200	8.78774
To the distance 7.66	.88436
	-

I have set down the operations in full, for finding the bearings and distances of the two first lines, as the difference of latitude of one, and the departure of the other, is less than unity, (see page 55) and made that side of the supposed triangle radius, which is more than unity; proceed with the difference of latitude and departure of the other lines, as before directed, and the several bearings and distances will be found, as in the preceding traverse table. These operations will be profitable for the learner to work in full.

The foregoing is the best method of finding the area of a piece of land taken by intersections; but for the sake of some variety, enlarging the ideas, and ripening the judgment of the learner. I shall find the area of the preceding by Problem 10, abge 111, and first find the area of the triangles formed from the point I, to these corners of the field which include no part of the Map; and then to those including the Map, and the sum of the outward triangles taken from that of the inward, will leave the double area of the Map.

## To find the area of IAGI.

As radius 90°	10.00000
Is to IA > 29.47	1.46938
IG \$ 18.27	1.26174
So is sine [I. 31.30	9.71809
•	12.44921
•	10.00000
To double area 281.33	2.44921

## To find the area of IGFL

As radius 90		10.00000
Is to IG \ 18.27		1.26174
. IF 3.66		1.13545
So is sine [I 13.30		9.36818
	•	11.76537
		10.00000
To double area 58.26		1.76537

# To find the area of IFEL

As radius 90	10.00000
Is to IF \ 13.66	1.13545
1E \$ 22.23	<b>1.84</b> 694
So is sine [I 24.	9.60931
	12.09170
	10.00000
To double area 123.51	2.09170

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### OF INTERSECTIONS

## To find the area of IABI.

As radius 90	10.00000
Is to IA \ 29.47	<b>1.46938</b>
IB \$5.43	1.54937
So is sine [I 18.46	9.37600
	12.39475
	10.00000
To double area 248.17	2.39475

# To find the area of IBCL

As radius 90	10.0000
Is to IB 7 85.48	1.54
IC \$ 29.83	1.47468
So is sine [I 9.15	9.20618
	12.23015
	10.00000
To double area 169.9	2.23015

## To find the area of ICDI.

As radius 90	10.00000
Is to IC 7 29.83	1.47465
ID \$ 30.75	1.48784
So is sine [I 19.80	9.52350
•	12.48599
	10.00000
To double area 306.2	2.48599

## To find the area of IDEI.

As radius 90	10.00000
Is to ID 3 30.75	1.18781
IE } 22.23	1.54694
So is sine [T 26.80	9.64953
	12.48431
	10.00000
To double area 505	2.48431

	Double area		
IAGI	281.33		
IGFI	58.26	Add	
IFEI	281.33 58.26 123.51		
IAGFEI	463.10		

·	Double Are	a.
<b>LAB1</b>	248.17	ł
IBCI	. 169.90	
<b>ICDI</b>	<b>3</b> 06. <b>20</b>	Add
IDEI	805.00	
	1029.27	
	شاهده	

D d

	Double Area.
From IABCDEI	1029.27
Take IAGFEI	463.10
Leaves ABCDEFGA	$\frac{1}{3}$ )566.17
	A. 28,3085
	4
	R. 1,2340
	40
Area 28A. 1R. 9.36P.	P. 9,8600

The small difference between this method, and the former, is owing to some losses sustained in not finding the exact number answering to a logarithm, and to the advantage of two decimal figures in the difference of latitude and departure, in working the traverse table; therefore the first method is preferable.

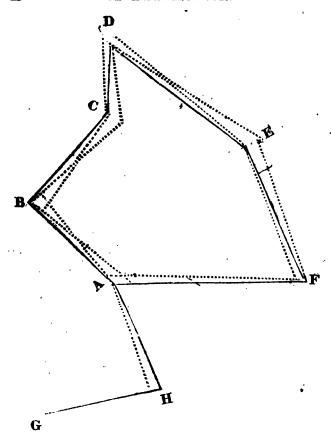
# ATTRACTION.

IT sometimes happens, that the needle is attracted out of its customary position, by an unknown cause; but most probably owing to some matter near the surface of the earth: as it is frequently observable where there is the appearance of iron-stone; and this attraction will frequently vary in quantity, and in denomination, at every station. Therefore, to take the bearings truly, where the needle is attracted, observe the following directions; as for example.

Suppose a field, bounded as by the Map in the following page, to be so situated; a true survey of which is required.

Note. Particular care must be taken to count the degrees at every station from the same end of the needle; as in this example, I count from the north end.

Seek a place where two stations can be taken, without attraction; this may be tried and proved by back-sights, and the nearer to one corner of the field the better, whether within or without the inclosure, as for instance; suppose I set my instrument at G, and take the bearing to H, and then by a back-sight from H to G, the bearing is the same; therefore no attraction at either of these stations. Then from H, I take the bearing to A, one corner of the field, and it is N. 25° W. then by a back-sight H bears



Note. The dotted lines represent the Magnetic points.

from A, S 22°  $\frac{1}{3}$  E. therefore at A, the north point of the needle is attracted  $2\frac{1}{3}$  degrees westerly; then turning the sights to B, it bears N.  $40^{\circ}$   $\frac{1}{3}$  W. to this, add the attraction  $2\frac{1}{3}$  degrees, and it gives the true bearing N.  $43^{\circ}$  W. distance measured is 7 chains, 20 links. Then, by a back-sight, A bears from B, S.  $46^{\circ}$  E. therefore the north point is attracted 3 degrees easterly at this place; then

turning the sights to C, and it bears N. 45° 1 E. and abating three degrees, the attraction, it leaves the true bearing N. 42° 1/2 E. 7 chains, 28 links; then, by a back-sight, B bears from C, S. 40° W. hence at this station, the north point is attracted 21 degrees westerly; then turning the sights to D, it bears N. 21 E. and the attraction being abated, makes it a due north course, 4 chains, 10 links; then, by a back-sight, C bears from D, S. 4° W. Hence the north point here is attracted 4 degrees westerly; then turning the sights to E, it bears S. 57° 1 E. from which take the attraction, and it leaves the true bearing. S. 58° 1, E. 10 chains, 75 links; then, by a back-sight. D bears from E, N. 50 W. therefore, here the north point is attracted 31 degrees easterly; then, turning the sights to F, it bears S. 18 E, to this add the attraction 31 degrees, and it gives the true bearing, S. 21 1. E. 8 chains, 97 links; then, by a back-sight, E bears from F, N. 19°, 1 W. hence the north point here is attracted two degrees westerly; then, turning the sights to A, the place of beginning, it bears, N. 89 W. From this, take the attraction, and it leaves the course to be due west. 11 chains, 93 links.

Hence, the true field notes are.

Ch.

AB N. 43° W. 7.20

BC N. 42 ½ E. 7.28

CD North. 4.10

DE S. 58 ½ E. 10.75

EF S. 21 ½ E. 8.97

FA West. 11.98

Area 13A. 3R. 34P.+

Care must be taken to have things in good order; the needle must traverse well, the instrument set level, a small straight rod to take the sights to, and that set perpendicular, otherwise inaccuracies will arise.

The attraction, when westerly, and the next station is to the westward of the meridian, then the attraction must be added to the bearing given by the needle, for the true bearing; but if the next station be eastward of the meridian, then the attraction must be taken from the bearing given by the needle for the true bearing: so, when the attraction is easterly, and the succeeding station eastward of the meridian, then the attraction must be added to the bearing given by the needle for the true bearing; but if the next station be west of the meridian, then the attraction must be taken from the bearing given by the needle for the true bearing between the present and next stations.

These observations being strictly attended to, the hearings of a field may be truly taken, where the needle is attracted; although the station, as at H, be so remote from the land to be surveyed, as to require several stations and courses to arrive at one corner of the field.

# VARIATION.

IT is well known, that there is a Variation in the needle, from pointing due North and South; and this variation is continually progressive. Hence it is, that the bearings of lines, taken some years ago, and the present time, do not agree; therefore, to find the difference between them, and the true bearing, at the present time.

Run the line according to the given bearing, and observe the nearest distance between the line so run, and the corner. Then—

> As the length of the whole line, Is to 57.3 degrees; So is the said distance, To the difference of variation required.

#### EXAMPLE.

Suppose a line, some years ago, bore N. 45° E. distance 20 chains; and in running this line, by the given bearing, the corner is found 20 links to the left hand. Required the bearing at the present time.

As { Ch. Deg. Links. 20 . . 57.3 :: 20 . . 0° 34′ to be abated.

Hence the bearing is N. 44° 26' E.

This rule is sufficiently exact in common practice, where the bearing and measure were both true; but in some old surveys, there are great inaccuracies: Therefore, the best way is, after running on the given bearings a convenient distance, to take the bearing and distance to the succeeding corner. Then find the bearing and distance between the corners, as taught in Division of Land, and in Intersections.

## TO FIND THE VARIATION OF THE COMPASS

BY AN

# AMPLITUDE.

RULE 1. To the log. Secant of the latitude, rejecting the index, add the log. sine of the sun's declination, corrected for the time and place of observation; their sum will be the log. sine of the true amplitude, to be reckoned from the east in the morning, or west in the afternoon, towards the north or south according to the deckination.

2. Then if the true and magnetic amplitudes, be both north, or both south, their difference is the variation; but if one be north and the other south, their sum is the variation; and to know whether it be easterly or westerly, suppose the observer looking towards that point of the compass representing the magnetic amplitude. Then if the true amplitude be to the right hand of the magnetic amplitude, the variation is east; but if to the left hand, it is west.

#### EXAMPLE 1.

July 3, 1812, in latitude 9° 36' S. the sun was observed to rise E. 22° 42' N. required the variation of the compass.

Variation	10°	38′	West, b	ecause th	e true Am
Mag. Amplitude	12	42	N.	-	
True Amplitude	23°	20'	<b>N.</b> .	Sine	9.59771
<b>D</b> eclination	22	59	N.	Sine	9.59158
Latitude	<b>9</b> °	36	8.	Secant	0.00618

Variation 10° 38' West, because the true Amplitude is to the left of the magnetic.

### Example 2.

September 24, 1812, in latitude 26° 32' N. and longitude 78° W. by the sun's centre, was observed to set W. 6° 15' S. about 6 h. P. M. required the variation of the compass.

0 30 S.

Sun's Declination

.

	Corr. for long. 78° W.	4-	5	•	
	Corr. for time 6 h. P. M.	+ .	6		
	Reduced Declination	0	<b>41</b> ′	Sine	8.07650
ŀ	Latitude	<b>2</b> 5	32	Secant	0.04834
	True Amplitude W.	0	46'	S. Sine	81.2484
	Mag. Amplitude W.		15'		•
	Variation	5°	29'	– East, b	ecause the
ŧ	rue amplitude is to the rig				

### TO FIND THE VARIATION OF THE COMPASS

BY AN

# AZIMUTH.

RULE 1. Reduce the sun's declination to the time and place of observation, and compute the true altitude of the sun's centre.

- 2. Subtract the sun's declination from 90°, when the latitude and declination are of the same name, or add it to 90°, when they are of contrary names; and the sum of the remainder, will be the sun's polar distance.
- 3. Add together the sun's polar distance, the latitude of the place and the altitude of the sun; take the difference between half their sum and the polar distance, and note the remainder.
- 4. Then add together
  The log. secant of the altitude, rejecting their indices.
  The log. secant of the latitude, rejecting their indices.
  The log. co-sine of the half sum,
  And the log. co-sine of the remainder.
- 5. Half the sum of these four logarithms will be the sine of an arch, which doubled, will be the sun's true azimuth; to be reckoned from the north in south latitude, towards the west in the afternoon.
- 6. Then, if the true and observed azimuths be bether on the east and on the west side of the meridian, their

difference is the variation: but if one be on the east and the west side of the meridian, their sum is the variation; and to know if it be east or west, suppose the observer looking towards that point of the compass representing the magnetic azimuth; then, if the true azimuth be to the right of the magnetic, the variation is east, but if the true be to the left of the magnetic, the variation is west.

## EXAMPLE.

November 2, 1812, in latitude 25° 32' N. and longitude 75° W. the altitude of the sun's lower limb was observed to be 15° 36' about 4 h. 10 m. P. M. his magnetic azimuth being S. 58° 32' W. and the height of the eye 18 feet, required the variation of the compass.

Sun's de. Nov. 2 at n.	140	48' S	. Obs. alt.	Sun's
Corr. for long. 75° W.	+	4	lower l	limb 15 68
Co. for ti. 4h. 10m. af'	n. +	3	Semidian Dip.	16 + 12
Reduced declination.	14	55	727	15 48
	90	00	Refractio	n 3
Polar distance	104°	55'	True Alt	itude 15 45
Altitude	15	45		
Latitude	25	32 -	Secant	0.01662
	1	713	Secant	0.04463
Sum	146°	12		
Half	73	6	all town,	SHAPELLE
Remainder	31°	49'	Co-sine	9.46345
	-	-	Co-sine	9.92929
	32	14	The same	The state of the s
MANAGEMENT WILL NOT THE	1 3 3	2	600 0000	19.45399
	1		Sine	9,72699
True azimuth	S. 64	28 W	The state of the s	of the section is
Magnetie Azimuth	S. 58	32 W	SUM THE	

Variation 5 56 East, because the true azimuth is to the right of the magnetic.

### TO ENLARGE OR DIMINISH

# MAPS.

To enlarge a Map to Two, Three, or four times the Size.

LET the dotted lines a, b, c, &c. represent a Map, or Survey, laid down by a scale of 40 perches to an inch, and it be required to enlarge it to one laid down by a scale of 20 perches to an inch.

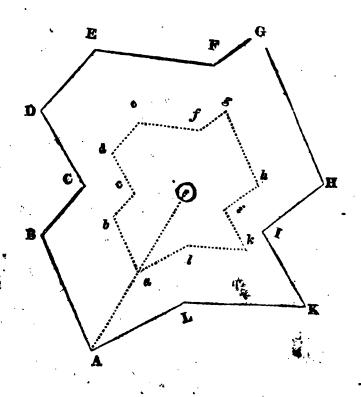
Pitch upon any convenient place, within the Map, for a centre, as  $\odot$ ; then lay a straight edged ruler on the centre, and point a; take in the compasses, the distance from this centre to a, and set it from a to A; then lay the ruler on the centre and b, and the distance from the centre to b, lay from b to B; join AB. Thus proceed with every station, and the Map ABCDEFGHIKL, will be double the size of the other.

If it were required to enlarge the Map three or four times the size, then the distances from the centre to each station, must be laid over as many times, &c.

If it be required to reduce a Map from 20 to 40 perches to an inch, then half the distance from the centre to each

# TO ENLARGE OR DIMINISH MAPS.

station, must be laid inside the Map; and so of any other proportion.



### TO SURVEY

# WITH THE CHAIN ONLY.

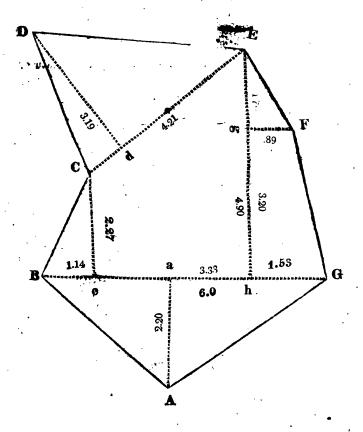
A Field so situated, that all the angles can be seen at one view, may be accurately measured by the Chain only. As for instance, suppose a field, or piece of land, bounded as in the following figure.—Then,

Measure from B to G, 6 chains, and perpendicular thereto measure aA 2 chains, 20 links, and perpendicular to BG, measure cC 2 chains, 27 links, and Bc 1 chain, 14 links; then CE 4 chains, 24 links, and perpendicular thereto dD, 3 chains, 19 links. Again; perpendicular to BG, measure hE 4 chains, 90 links, and perpendicular thereto gF, 89 links, and hG 1 chain, 53 links; then, consequently, he will be 3 chains, 33 links; hg being measured, will be 3 chains, 20 links, leaving gF 1 chain, 70 links. And as each line is measured, draw it on paper with a peneil, and the several angles by the eye, marking each line with its own distance. This rough draught will greatly assist the memory in calculating.

By the preceding Problems, the area of the several triangles, &c. will be found to be —

# TO SURVEY WITH THE CHAIN.

	Sqr. Ch.	•
<b>ABGA</b>	6.6000	)
BCeB	1.2939	By Problem 6, page 107.
CDEC	6.71495	by Problem 6, page 107.
<b>EFgE</b>	0.7565	j
FGhgF	3.8720	By Problem 9, page 110.
CEhcC	3.8720 11.98805	by 110blem s, page 110.
' 1		
	3.117540	= 3A. 0R, 18.8P. +



By measuring Ba, and Cd, with those already made, a true Map of the field may be constructed. For BG, being laid down from a scale of equal parts, and aA, from the same scale, it's proper distance from B, will determine the point A, and the perpendicular cC, will fix the point C; then with cE in the compasses, and one foot in C, describe an arch, as at E; and with hE in the compasses, and one foot in h, intersect the arch at E, which fixes the point E, and the perpendicular dD, it's proper distance from C, determines the point D; then from g lay off the perpendicular gF, and draw the lines AB, BC, CD, &c. and a Map of the Field is completed.

Admit a field bounded as in the following figure; the dimensions of which are, AB 27 chains, 35 links; BC 22 chains, 20 links; CD 29 chains, 25 links; DE 23 chains, 70 links; and EA 31 chains, 15 links: The diagonal BE 38 chains, and EC 40 chains, 10 links; and from this measure it is required to make the Map, and find the area thereof.

### TO MAKE THE MAP.

Draw AB it's proper length; then, with the diagonal BE in the compasses, and one foot in the point B, describe an arch at E; then take AE in the compasses, and with one foot in A, cross the former arch, and the place of intersection fixes the point E. Again; take EC, and with one foot in E, make an arch at C; then, with BC, and one foot in B, intersect the arch at C, which fixes that point. Again; with CD in the compasses, and one foot in C, make an arch at D; then, with DE, and one foot

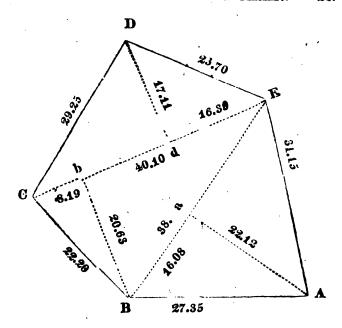
#### TO SURVEY WITH THE CHAIN.

226

in E, intersect the arch at D, for the point D. Lastly; draw lines from point to point, and the Map is made. Draw the diagonals, and the Map is divided into three oblique angled triangles. Then divide each of these into two right angled triangles, by Case 6, Oblique Angled Trigonometry, thus—

As the sum of Ba, and aE	38	1.57978
Is to the diff. AB and AE	3.8	0.57978
So is their sum	<b>58.</b> 5	1.76716
.'	•	2.34694
		1.57978
	$\frac{1}{2}$ )	
To the diff. of Ba, and a E	5.85	0.76716
•	-	
	2.92	
	·	
From half the sum of Ba,	and aE	19
Take half their diff.		2.92
LWEO MAIL CHUIL WILLS		2.02
Remains the least base B	a	16.08

(See the following Map.)



Then AB 27.35  $\times$  27.35 = 748.0225, and Ba 16.08  $\times$  16.08 = 258.5664.

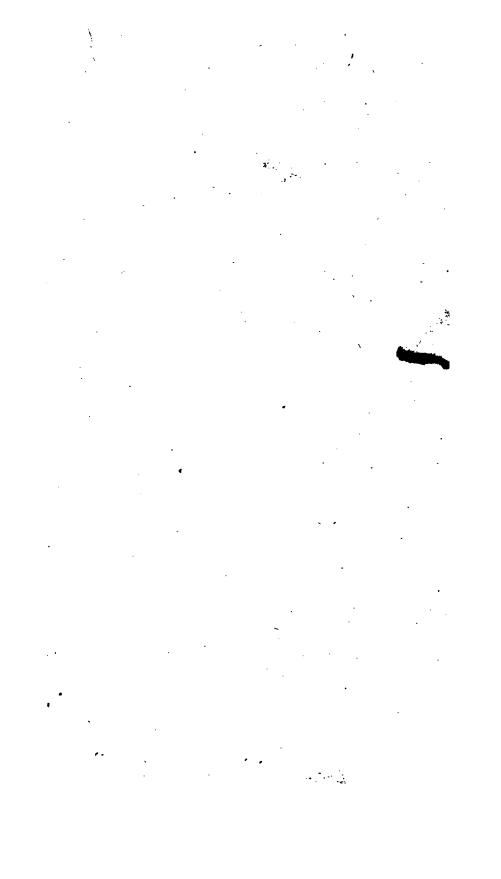
From the square of AB, take the square of Ba, leaves 489.4561, the square of Aa: the square root of which, is 22 chains, 12 links — Aa. Thus proceed with the others, and they will be found as in the figure.

Sqr. Ch.

Area of ABEA, is 420.28 by Problem 6, page 107. BCDEB, is 756.687 by Problem 8, page 109.

117.6967 = 117A. 2R. 31.472P.

FINIS.



# **TABLES**

0F

### DIFFERENCE

OF

## LATITUDE AND DEPARTURE:

CONSTRUCTED

EVERY QUARTER OF A DEGREE OF THE QUADRANT.

AND CONTINUED

FROM ONE TO THE DISTANCE

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ONE HUNDRED MILES OR CHAINS.

PHILADELPHIA:

Published by Johnson & Warner, 147, Market-Street.

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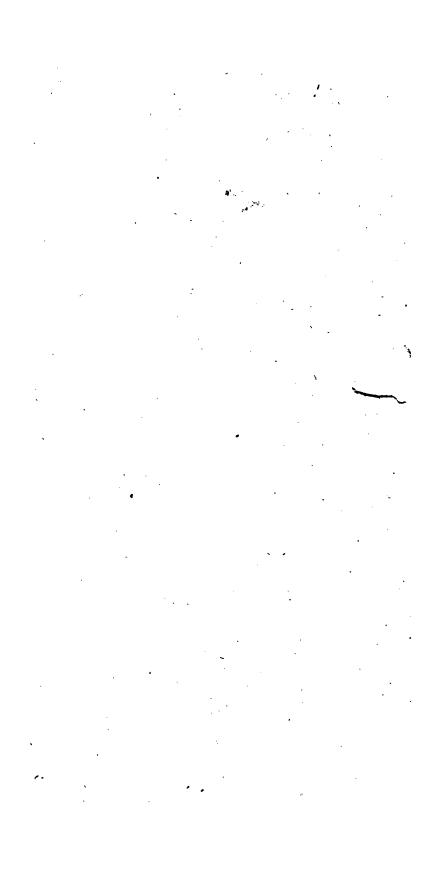
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20		20.00 0.44	19.99 0.52	19.99 0.61	20	И
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22		21.99 0.48	21.99 0.58	21.99 0.67	22	в
23	23.00 0.40	22.99 0.50	22.99 0.60	22.99 0.70	23	ı
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28		27.99 0.61	27.99 0.73	27.99 0.86	28	ı
29		28.99 0.63	28.99 0.76	28.99 0.89	29	ı
30	30.00 0.52	29.99 0.65	29.99 0.79	29.99 0.92	30	ı
31		30.99 0.68	30.99 0.81	30.99 0.95	31	ı
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H	78 77.99 1.36	77.98 1.70	77.97 2.04	77.96 2.38 78	П
н	79 78.99 1.38	78.98 1.72	78.97 2.07	78.96 2.41 79	н
ı	80 79.99 1.40	79.98 1.75	79.97 2.09	79.96 2.44 80	ı
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		51.95 2.27	50.94 2.45 51 51.94 2.50 52
52 51 97 1.81 53 52.97 1.85	51.96 2.04 52.96 2.08	52.95 2.31	52.94 2.54 53
54 53.97 1.88	53.96 2.12	53.95 2.36	53.94 2.59 54
55 54.97 1.92	54.96 2.16	54.95 2.40	54.94 2.64 55
			55.94 2.69 56
56 55.97 1.95 57 56.97 1.99	55.96 2 20 56.96 2.24	55.95 2.44 56.95 2.49	56.93 2.73 57
58 57 96 2.02	57.96 2.28	57.94 2.53	57.93 2.78 58
59 58.96 2.06	58.95 2.32	58.94 2.57	58.93 2.83 59
60 59.96 2.09	59.95 2.36	59.94 2.62	59.93 2.88 60
61 60.96 2.13	60.95 2.39	60.94 2.66	60.93 2.93 61
62 61.96 2.16	61.95 2.43	61.94 2.70	61.93 2.97 62 62.93 3.02 63
63 62.96 2.20	62.95 2.47	62.94 2.75	62.93 3.02 63
64 63.96 2.23	63.95 2.51	63.94 2.79	63.93 3.07 64
65 64.96 2.27	64.95 2.55	64.94 2.84	64.93 3.12 65
66 65.96 2.30	65.95 2.59 66.95 2.63	65.94 2.88	65.92 3.17 66
67 66.96 2.34	66.95 2.63	66.94 2.92	66.92 3.21 67
68 67 .96 2.37	67.95 2.67	67.94 2.97 68.93 3.01	67.923.26 68
69 68.96 2.41	68.95 2.71		68.92 3.31 69
70 69.96 2.44	69.95 2.75	69.93 3.05	69.92 3.36 70
71 70.96 2.48	70.95 2.79	70.93 3.10	70.923.41 71
72 71.96 2.51	71.94 2.83 72.94 2.87	71.933.14	71.923.45 72 72.923.50 73
73 72.96 2.55	73.94 2.91	72.93 3.18 73.93 3.23	
74 73.95 2.58 75 74.95 2.62	73.94 2.91	74.93 3.27	73.91 3.55 74
76 75 05 0 65	74.94 2.94 75.94 2.98		74.91 3.60 75
7675.952.65 7776.952.69	76.94 3.02	75.93 3.31 76.93 3.36	75.91 3.65 76 76.91 3.70 77
7877.95 2.72	77.94 3.06	77.93 3.40	76.91 3.70 77 77.91 3.74 78
7978.952.76	78.94 3.10	78.923.45	78.91 3.79 79
80 79.95 2.79	79.94 3.14	79.92 3.49	79.91 3.84 80
81 80.95 2.83	80.94 3.18	80.92 3.53	80.91 3.89 81
8981.952.86	81.943.22	81,993,58	
82 81.95 2.86 83 82.95 2.90	82.94 3.26	81.923.58 82.923.62	81.91 3.93 82 82.90 3.98 83
84 83.95 2.93	83.943 30	83.923.66	83.90 4.03 84
85 84.95 2.97	84.93 3.34	84.923.71	84.90 4.08 85
86 85.95 3.00	85.93 3.38	85.923.75	85.90 4.13 86
87 86.95 3.04	86.93 3.42	86.92 3.79	86.90 4.17 87
88 87.95 3.07	87.93 3.45	87.92 3.84	87.90 4.22 88
89 88.95 3.11	88.93 3.49	88.923.88	88.90 4.27 89
90 89.95 3.14	89.93 3.53	89.91 3.93	89.90 4.32 90
91 90.95 3.18	90.93 3.57	90.91 3.97	90.90 4.37 91
92 91 94 3.21	91.93 3.61 92.93 3.65	91.91 4.01	91.89 4.41 92 92.89 4.46 93
93 92.94 3.25	92.93 3.65	92.91 4.06	
94 93.94 3.28	93.93 3.69	93.91 4.10	93.89 4.51 94
95 94.94 3.32	94.93 3.73	94.91 4.14	94.89 4.56 95
96 95.94 3.35 97 96.94 3.39	95.93 3.77 96.93 3.81	95.91 4.19 96.91 4.23	95.89 4.61 96 96.89 4.65 97
98 97 94 3 42	97.92 3.85	96.914.23	
99 98 94 3 46	98.923.89	98.91 4.32	97.89 4.70 98 98.89 4.75 99
100 99.94 3.49	99.923.93	99.91 4.36	99.89 4.80 100
Dep. Lat.	Dep. Lat	Dep. Lat	
07			Dep. Lat
88 Deg.	873 Deg	871 Deg	871 Deg 5
The second secon	The Real Property lies		- 0)

*			
I U S Deg.	31 Deg.	31 Deg	33 Deg. 5
Lat. Dep	Lat. Dep	Lat. Dep	Lat. Dep #
1 1.00 0.05	1.00 0.06	1.00 0.06	1.00 0.06 1
2 2.00 0.10	2.00 0.11	2.00 0.12	2.00 0.13 2
3 3.00 0.16	3.00 0.17	2.99 0.18	2.99 0.20 3 1
4 3.99 0.21	3.99 0.23 4.99 0.28	3.99 0.24	3.99 0.26 4
5 4.99 0.26	4.99 0.28 5.99 0.34	4.99 0.31	4,99 0.33 5 5.99 0.39 6
4 3.99 0.21 5 4.99 0.26 6 5.99 0.31 7 6.99 0.37	6.99 0.40	5.99 0.37 6.99 0.43	5.99 0,39 6 6.99 0.46 7
8 7.99 0.42	7.99 0.45	7.990.49	7.980.52 8
9 8.99 0.47	8.99 0.51	8.98 0.55	8.98 0.59 9
. 10 9.99 0.52	9.98 0.57	9.98 0.61	9.98 0.65 10
11 10.98 0.58	10.98 0.62	10.98 0.67	10.980 72 11
12 11.98 0.63	11.98 0.68	11.98 0.73	11.97 0.78 12
13 12.98 0.68	12.98 0.73	12.98 0.79	12.97 0.85 13
14 13.98 0.73	13.98 0.79	13.97 0.85	13.97 0.92 14
15 14.98 0.79	14.98 0.85	14.97 0.92	14.97 0.98 15
16 15.98 0.84 17 16.98 0.89	15.97 0.91 16.97 0.96	15.97 0.98	15.97 1.05 16 16.96 1.11 17
18 17.98 0.94	17.97 1.02	16.97 1.04 17.97 1.10	17.96 1.18 18
19 18 98 0 99	18.97 1.08	18.96 1.16	18.96 1.24 19
20 19.97 1.05	19.97 1.13	19.96 1.22	19.96 1.31 20
21 20.97 1.10	20.97 1.19	20.96 1.28	20.96 1.37 21
22 21.97 1.15	21.96 1.25	21.96 1.34	21.95 1.44 22
23 22.97 1.20	22 96 1.30	22.96 1.40	22.95 1.50 23
24 23.97 1.26	23.96 1.36	23.96 1.47	23.95 1.57 24
25 24.97 1.31	24.96 1.49	24.95 1.53	24.95 1.64 25
26 25.96 1.36	25.96 1.47	25.95 1.59	25.94 1.70 26
27 26.96 1.41	26.96 1 53	26.95 1.65	26.94 1.77 27 27.94 1.83 28
28 27 96 1.47 29 28.96 1.52	27.95 1.59 28.95 1.64	27.95 1.71 28.95 1.77	27.94 1.83 28 28.94 1.90 29
30 29.96 1.57	29.95 1.70	29.94 1.83	29 94 1.96 30
31 30.96 1.62	30.95 1.76	30.94 1.89	30.93 2.03 31
3231.961.67	31.95 1.81	31.94 1.95	31.93 2.09 82
33 32.95 1.73	32.95 1.87	32.94 2.01	32.93 2.16 33
34 33.95 1.78	33.95 1.93	33.94 2.08	33.93 2.22 34
35 34.95 1.83	34,94 1.98	34.93 2.14	34.92 2.29 35
36 35.95 1.88	35.94 2.04	35.93 2.20	35.92 2.35 36
37 36.95 1.94	36.94 2.10	36.93 2.26	36.92 2.42 37
38 37.95 1.99 39 38.95 2.04	37.94 2.15	37.93 2.32 38.93 2.38	37.92 2.49 38 38.92 2.55 39
4039,952.09	38.94 2.21 39.94 2.27	39.93 2.44	39.91 2.62 40
41 40,94 2.15	40.93 2.32	40.92 2.50	40.91 2 68 41
42 41.94 2.20	41.93 2.38	40.92 2.56	41.91 2.75 42
43 42 94 2 25	42.93 2.44	42.92 2.63	41.91 2.75 42 42.91 2.81 43
44 43.94 2.30	43.93 2.49	43.92 2.69	43.91 2.88 44
45 44.94 2.36	44.95 2.55	44.92 2.75	44.90 2.94 45
46 45.94 2.41	45.93 2.61	45.91 2.81 46.91 2.87	45.90 3.01 46
47 46,94 2.46	46.92 2.66		46.90 3.07 47
48 47.93 2.51	47.92 2.72	47.91 2 93	47.90 3.14 48 48.90 5.20 49
49 48.93 2.56 50 49.93 2.62	48.92 2.78 49.92 2.83	48.91 2.99 49.91 3.05	48.90 3.20 49 49.89 3.27 50
	The second second	Section of Section 2	
Dep. Lat	Dep. Lat	Dep. Lat	Dep. Lat
5 87 Deg.	863 Deg	86½ Deg	861 Deg 5
0			

5 3 Deg.	31 Deg.	31 Deg. 1	33 Deg.	01
Lat. Dep	Lat.  Dep	Lat. Dep	Lat. Dep	is
51 50.93 2.67		50.90 3.11		
52 51.93 2.72	50.92 2.89 51.92 2.95	51.90 3.17	50.893.34	51
53 52.93 2.77	52.91 3.00	52.90 3.24	51.89 3.40 52.89 3.47	52   53
54 53.93 2.83	53.91 3.06	53.90 3.30		54
	54.91 3.12	54.90 3.36		55
55 54.92 2.88 56 55.92 2.93	55.913.17		Control of the Control of the	56
57 56.92 2.98	55.91 3.17 56.91 3.23	55.90 3.42 56.89 3.48		57
58 57.92 3.04	57.91 3.29	57.89 3.54		58
59 58.92 3.09	58.91 3.34	58.89 3.60		59
60 59.92 3.14	59.90 3.40	59.89 3.66	59.87 3.92	60
61 60.92 3.19	60.90 3.46	60.98 3.72	60 87 3.99	61
	61.90 3.51	61.883.79		62
62 61.92 3.24 63 62.91 3.30	61.90 3.51 62.90 3.57	62.88 3.85		63
64 63 91 3 35	63.90 3.63	63.88 3.91		64
65 64.91 3.40	64.90 3.69	64.88 3.97		65
66 65.91 3.45 67 66.91 3.51	65.89 3.74	65.88 4.03		66
	66.89 3.80	66.88 4.09	66.86 4.38	67
68 67.91 3.56	67.89 3.86	67.87 4.15	67.85 4.45	68
69 68.91 3.61	68.89 3.91	68.87 4.21	68.85 4.51	69
70 69.91 3.66	69.89 3.97	69.87 4.27	69.85 4.58	70
71 70.90 3.72	70.89 4.03	70.87 4.33	70.85 4.64	71
72 71.90 3.77	71.88 4.08 72.88 4.14	71.874.40	71.85 4.71	72
72 71.90 3.77 73 72.90 3.82	72.88 4.14	72.86 4.46	71.85 4.71 72.84 4.77	73
74 73.90 3.87	73.88 4.20	73.86 4.52	73.84 4.84	74
75 74.90 3.93	74.88 4.25	74.86 4.58	74.84 4.91	75
76 75.90 3.98	75.88 4.31	75.86 4.64		76
77 76.89 4.03	76.88 4.37	76.86 4.70	76.84 5.04	77
78 77.89 4.08	77.87 4.42	77.85 4.76	77.83 5.10	78
79 78.89 4.13	78.87 4.48 79.87 4.54	78.85 4.82	78.83 5.17	79
80 79.89 4.19	79.87 4.54	79.85 4.88	79.83 5.23	80 1
81 80.89 4.24	80.87 4.59 81.87 4.65 82.87 4.71	80.85 4.94	80.83 5.30	81
82 81.89 4.29	81.87 4.65	81.85 5.01 82.85 5.07	81.82 5.36	82
85 82.89 4.34	82.87 4.71		82.82 5.43	83
84 83.89 4.40	83.86 4.76	83.84 5.13	83.82 5.49	84
85 84.88 4.45	84.86 4.82	84.84 5.19	84.82 5.56	85
86 85.88 4.50	85.86 4.88	85.84 5.25 86.84 5.31	85.82 5.62	86
87 86 88 4.55 88 87 88 4.61	86.86 4.93 87.86 4.99		86.81 5.69	87
88 87.88 4.61 89 88.88 4.66	88.86 5.05	87.84 5.37 88.83 5.43	87.81 5.76	88
9089.884.71	89.86 5.10	89.83 5.49	88.81 5.82 89.81 5.89	90
	The real party and the least of		The second second second	meng !
91 90.88 4.76	90.85 5.16	90.83 5.56	90.81 5.95	91
92 91.87 4.81	91.85 5.22	91.83 5.62	91.80 6.02	92
93 92.87 4.87 94 93.87 4.92	92.85 5.27 93.85 5.33	92.83 5.68	92,80 6.08	93
95 94.87 4.97	93.85 5.39	93.82 5.74 94.82 5.80	93.80 6.15	94 95
96 95.87 5.02	95.85 5.44	95.82 5.86	94.80 6.21 95.79 6.28	95
97 96.87 5.08	96.84 5.50	95.62 5.60	96.79 6.34	97
98 97.87 5.13	97.84 5.56	97.82 5.98	97.79 6.41	98
99 98.86 5.18	98.84 5.61	98.82 6.04	98.79 6.47	99
100 99.86 5.23	99.84 5.67	99.81 6.10	99.79 6.54	
Dep. Lat	Dep. Lat	Dep. Lat	The second of the second of	1
00	-	The second	Dep. Lat	St
87 Deg	863 Deg	86 Deg	861 Deg	A
(1)		THE REAL PROPERTY.	-	=

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0 4 Deg.	41 Deg.	41 Deg.	43 Deg. D	Ï
Lat Dep	Lat. Dep	Lat  Dep	Lat Dep =	Ц
1 1.00 0.07	1.00 0.07	1.00 0.08	1.00 0.08 1	ı
2 2.00 0.14	1.99 0.15	1.99 0.16	1.99 0.17 2	ı
3 2.99 0.21 4 3.99 0.28	2.99 0.22 3.99 0.30	2.99 0.24 3.99 0.31	2.99 0.25 3 3.98 0.33 4	ı
5 4.99 0.35	4.99 0.37	4.980.39	4.98 0.41 5	ı
6 5.99 0.42	5.98 0.44	5.98 0.47	5.98 0.50 6	ı
7 6.98 0.49	6.98 0.55	6.98 0.54	6.97 0.58 7	ł
8 7.98 0.56 9 8.98 0.63	7.98 0.59 8.98 0.67	7.97 0.63 8.97 0.71	7.97 0.66 8 8.97 0.75 9	1
10 9,98 0.70	9.97 0.74	9 97 0.78	9.97 0.83 10	ł
11 10.97 0.77	10.97 0.82	10.97 0.86	10.96 0.91 11	۱
12 11.97 0.84	11.97 0.89	11.960 04	11.96 0.99 12	ì
13 12.97 0.91	12.960.96	12.96 1.02	12.96 1.08 13	1
14 13.97 0.98	13.96 1.04 14.96 1.11	13.96 1.10 14.95 1.18	13.95 1.16 14 14.95 1.24 15	i
16 15.96 1.12	15.96 1.19	15.95 1.26	15.95 1.32 16	
17 16.96 1.19	16.95 1.26	16.95 1.33	16.94 1.41 17	i
18 17.96 1.26	17.95 1.33	17.94 1.41	17.94 1.49 18	ı
19 18.95 1.33 20 19.95 1.40	18.95 1.40 19.95 1.48	18.94 1.49 19.94 1.57	18.93 1.57 19 19.93 1.66 20	ĭ
21 20.95 1.46	20.94 1.56	20.94 1.65	20.93 1.74 21	4
22 21.95 1.53	21.94 1.63	21.93 1.73	21.92 1.82 22	1
23 22.94 1.60	22.94 1.70	22.93 1.80	22.92 1.90 23	4
24 23.94 1.67	23.93 1.78	23.93 1.88	23.92 1.99 24	1
25 24.94 1.74	24.93 1.85	24.92 1.96	24.91 2.07 25	ı
26 25.94 1.81 27 26.93 1.88	25.93 1.93 26.93 2.00	25.92 2.04 26.92 2.12	25.91 2.15 26 26.91 2.24 27	1
28 27.93 1.95	27.92 2.08	27.91 2.20	27.90 2.32 28	4
29 28.93 2.02	28.92 2 15	28.91 2.28	28.90 2.40 29	1
30 29.93 2.09	Decreesed beautiful	29.91 2.35	29.93 2.48 30	i
31 30.92 2.16	30.91 2 30 31.91 2.37	30.90 2.43 31.90 2.51	30.89 2.57 31 31.89 2.65 32	ı
32 31.92 2.23 33 32.92 2.30	32.91 2.45	32.90 2.59	31.89 2.65 32 32.89 2.73 33	i
34 33 92 9 37	33.91 2.52	33.90 2.67	33.88 2.82 34	1
35 34.91 2.44	33.91 2.52 34.90 2.59	33.90 2.67 34.89 2.75	34.88 2.90 35	i
36 35.91 2.51	35.90 2.67	35.89 2.82	35.88 2.98 36	4
37 36.91 2.58	36 90 2.74 37.90 2.82	36.89 2.90	36.87 3.06 37 37.87 3.15 38	Ī
38 37 91 2.65 39 38 90 2.72	38.89 2.89	37.88 2.98 38.88 3.06	37.87 3.15 38 38.87 3.23 39	
40 39.90 2.79	39.89 2.96	39.88 3.14	39.86 3.31 40	
41 40.90 2.86	40.89 3.04	40.87 3.22	40.86 3.40 41	I
42 41.90 2.93	41.88 3.11	41.87 3.30	41.86 3.48 42	I
43 42.90 3.00 44 43.89 3.07	42.88 3.19 43.88 3.26	42.87 3.37 43.86 3.45	42.85 3.56 43 43.85 3.64 44	I
45 44.89 3.14	44.88 3.33		44.85 3.73 45	
46 45 89 3.21	45.87 3.41	44.86 3.53 45.86 3.61	45.84 3.81 46	ļ
47 46.89 3.28	46.87 3.48	46,86 3.69	46.84 3.89 47	
48 47.88 3.35 49 48.88 3.42	47.87 3.56 48.87 3.63	47.85 3.77 48.85 3.84	47.84 3.97 48 48.83 4.06 49	F
50 49.88 3.49	49.86 3.71	49.85 3.92	49.83 4.14 50	
Dep. Lat	Dep. Lat	Dep. Lat	Dep Lat	H
	853 Deg	85½Deg	851 Deg 2	
S Dog.	Tool B	1 2 2 5 6 8	Post P	5
1000		3-19		'n

Į,					24
Ĭ	5 4 Deg.	41 Deg.	41 Deg.	44 Deg. 0	m
ı	Lat. Dep	Lat. Dep	Lat. Dep	Lat  Dep =	li
ı	51 50.88 3.56	50.86 3.78	50.84 4.00	50.82 4.22 51	п
ı	52 51.87 3.63	51.86 3.85	51.84 4.08	51.82 4.31 52	i
١	53 52.87 3.70	52.85 3.93	52.84 4.16	52.82 4.39 53	H
ı	54 53.87 3.77	53.85 4.00	53.83 4.24	53.81 4.47 54	ш
H	55 54.87 3.84	54.85 4.08	54.83 4.32	54.81 4.55 55	
ľ	56 55.86 3.91	55.85 4.15	55.83 4.39	55.81 4.64 56	
ı	57 56.86 3.98 58 57.86 4.05	56.84 4.22 57.84 4.30	56.82 4.47 57.82 4.55	56.80 4.72 57 57.80 4.80 58	
ı	59 58.86 4.12	58.84 4.37			
ı	60 59.85 4.19	59.84 4.45	58.82 4.63 59.82 4.71	58.80 4.89 59 59.79 4.97 60	
ı	61 60.85 4.26	60.83 4.52	60.81 4.79	60.79 5.05 61	И
I	62 61.85 4.32	61.83 4.59	61.81 4.86	61.79 5.13 62	H
I	63 62.85 4.39	62.83 4.67	62.81 4.94	62.78 5.22 63	Ш
u	64 63 84 4.46	63.82 4.74	63.80 5.02	63.78 5.30 64	А
I	65 64.84 4.53	64.82 4.82	64.80 5.10	64.78 5.38 65	И
I	66 65.84 4.60	65.82 4.89	65.80 5.18	65.77 5.47 66	П
II	67 66.84 4.67	66.82 4.97	66.79 5.26	66.77 5.55 67 67.77 5.63 68	И
ı	68 67.83 4.74 69 68.83 4.81	67.81 5.04	67.79 5.34 68.79 5.41	67.77 5.63 68 68.76 5.71 69	I
1	70 69.83 4.88	68.81 5.11 69.81 5.19	69.78 5.49	69.76 5.80 70	И
H	71 70.83 4.95	70.80 5.26	70.78 5 55	70.76 5.88 71	I
I	72 71.82 5.02	71 80 5.34	71.78 5.67	71.75 5.96 72	П
П	73 72.82 5.09	72.80 5.41	72.77 5.73	72.75 6.04 73	И
Н	74 73.82 5.16	73.80 5.48	73.77 5.81	73.75 6.13 74	и
II	75 74.82 5.23	74.79 5.56	74.77 5.88	74.74 6.21 75	ı
Ш	76 75.81 5.30	75.79 5.63	75.77 5.96	75.74 6.29 76	П
I	77 76.81 5.37	76.79 5.71	76,76 6.04	76.74 6.38 77	ı
H	78 77.81 5.44 79 78.81 5.51	77.79 5.78 78.78 5.85	77.76 6.12 78.76 6.20	77.73 6.46 78 78.73 6.54 79	н
ı	80 79.81 5.58	79.78 5.93	79.75 6.28	78.75 6.54 79 79.73 6.62 80	Ħ
Н	81 80.80 5.65	80.78 6.00	80.75 6.36	80.72 6.71 81	П
II	8281.80 5.72	81 78 6.08	81.75 6.43	81.72 6.79 82	ı
Ц	83 82.80 5.79	81 78 6.08 82.77 6.15	82.74 6.51	82.71 6.87 83	н
II	84 83.80 5.86	83.77 6.23	83.74 6.59	83.71 6.96 84	п
Ш	85 84.79 5.93	84.77 6.30	84.74 6.67	84.71 7.04 85	н
Н	86 85.79 6.00	85.76 6.37	85.73 6.75	85.70 7.12 86	ì
	87 86 79 6.07	86.76 6.45	86.73 6.83	86.70 7.20 87 87.70 7.29 88	
	88 87.79 6.17 89 88.78 6.21	87.76 6.52 88.76 6.60	87.73 6.90 88.73 6.98	88.707.37 89	
۱	90 89.78 6.28	89.75 6.67	89.72 7.06	89.69 7.45 90	1
	91 90.78 6.35	90.75 6.74	90.72 7.14	90.69 7.54 91	1
	92 91.78 6.42	91.75 6.82	91.72 7.22	91.68 7.62 92	1
	93 92.77 6.49	92.74 6.89	92.71 7.30	92.68 7.70 93	1
	94 93.77 6.56	93.74 6.97	93.71 7.38	93.68 7.78 94	1
I	95 94.77 6.63	94.747.04	94.71 7.45	94.67 7.86 95	1
	96 95.77 6.70 97 96.76 6.77	95.74 7.11 96.73 7.19	95.70 7.53 96.70 7.61	95.67 7.95 96	
	97 96.76 6.77 98 97.76 6.84			96.67 8.03 97 97.66 8.12 98	
I	99 98 76 6.91	97.73 7.26 98.73 7.34	97.70 7.69 98.69 7.77	98.66 8.20 99	
I	100 99.76 6.98	99.73 7.41	99.69 7.85	99.66 8.28 100	-
	Dep. Lat	Dep. Lat	Dep. Lat	Dep. Lat	
۱	86 Deg.		85 Deg	851 Deg 2	
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D 5 Deg	51 Deg	51 Deg.	53 Deg. 💆
Lat. Dep	La Dep	La: Dep	Lat. Dep #
1 1.000.09	1.00 0.09	1.00 0.10	0.99 0.10 1
2 1.99 0.17 3 2.99 0.26	1.99 0.18 2.99 0.27	1.99 0.19 2.99 0.29	1.99 0.20 2 2.98 0.30 3
	3.98 0.37	3.080.38	
5 4.98 0.44	4.98 0.46	4.98 0.48	3.98 0.40 4 4.97 0.50 5
6 5.98 0.52	5.97 0.55	5.97 0.58	5.97 0.60 6
7 6.97 0.61	6.97 0.64	6.97 0.67	6.96 0.70 7 7.96 0.80 8
8 7.97 0.70 9 8.97 0.78	7.97 0.73 8.96 0.82	7.96 0.76 8.96 0.86	7.96 0.80 8 8.95 0.90 9
10 9.96 0.87	9.96 0.92	9.95 0.96	9.95 1.00 10
11 10.96 0.96	10.95 1.01	10.95 1.05	10.94 1.10 11
12 11.95 1.05	11.95 1.10	11.94 1.15	11.94 1.20 12
13 12.95 1.13	12.95 1.19	12.94 1.25	12.93 1.30 13
14 13.95 1.22 15 14.94 1.31	13.94 1.28 14.94 1.37	13.94 1.34 14.93 1.44	13.93 1.40 14 14.92 1.50 15
16 15.94 1.39	15.93 1.46	15.93 1.53	15.92 1.60 16
17 16.94 1.48	16.93 1.56	16.92 1.63	16.91 1.70 17
18 17.95 1.57	17.92 1.65	17.92 1.73	17.91 1.80 18
19 18.93 1.66 20 19.92 1.74	18.92 1.74 19.92 1.83	18.91 1.82 19.91 1.92	18.90 1.90 19 19.90 2.00 20
21 20.92 1.83	20.91 1.92	20.90 2.01	20.89 2.10 21
22 21.92 1.92	21.91 2.01	21.90 2.11	21.89 2.20 22
23 22.91 2.00	22.90 2.10	22.89 2.20	22.88 2.30 23
24 23.91 2.09	23.90 2.20	23.89 2.30	23.88 2.40 24
25 24.90 2.18	24.90 2.29	24.88 2.40 25.88 2.49	24.87 2.50 25
26 25.90 2.27 27 26.90 2.35	25.89 2.38 26.89 2.47	25.88 2.49 26.88 2.59-	25.87 2.60 26 26.86 2.71 27
28 27.89 2.44	27.88 2.56	27.87 2.68	27.86 2.81 28
29 28.89 2.53	28.88 2.65	28.87 2.78	28.85 2.91 29
30 29.89 2.61	29.87 2.75	29.86 2.88	29.85 3.01 30
31 30.88 2.70	30.87 2.84	30.862.97	30.84 3.11 31
3231.882.79 3332.872.88	31.87 2.93 32.86 3.02	31.85 3.07 32.85 3.16	31.84 3.21 32 32.83 3.31 33
34 33.87 2.96	33.86 3.11	33.84 3.26	33.83 3.41 34
35 34.87 3.05	34.85 3.20 35.85 3.29	34.84 3.35	34.82 3.51 35 35.82 3.61 36
36 35.86 3.14		35.83 3.45	35.82 3.61 36
37 36.86 3.22 38 37.86 3.51	36.84 3.39	36.83 3.55 37.83 3.64	36.81 3.71 37 37.81 3.81 38
38 37.86 3.51 39 38.85 3.40	37.84 3.48	38.82 3.74	38.80 3.91 39
40 39.85 3.49	38.84 3.57 39.83 3.66	39.82 3.83	39.80 4.01 40
41 40.84 3.57	40.83 3.75	40.81 3.93	40.79 4.11 41
42 41.84 3.66	41.82 3.84	41.81 4.03	41.79 4.21 42
48 42.84 3.75	42.82 3.93	42.80 4.12	42.78 4.31 43
44 43.83 3.83 45 44-83 3.92	43.82 4.03 44.81 4.12	43.80 4.22 44.79 4.31	43.78 4.41 44
46 45.82 4.01	45.81 4.21		44.77 4.51 45 45.77 4.61 46
47 46.82 4.10	46.80 4.30	46.78 4.50	46.76 4.71 47
48 47.82 4.18		47.78 4.60	
49 48.81 4.27 50 49.81 4.36	48.79 4.48		48.75 4.91 49 49.75 5.01 50
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ı	53 52.80 4.62 54 53.79 4.71	52.78 4.85	52.76 5.08 53.75 5.18	52.73 5.31	53	ı
ı	55 54.79 4.79	53.77 4.94 54.77 5.03	54.75 5.27	53.73 5.41 54.72 5.51	54 55	ı
۱	56 55.79 4.88	55.77 5.12	55.74 5.37	55.72 5.61	56	n
ı	57 56.78 4.97	56.76 5.22	56.74 5.46	56.71 5.71	57	۱
1	58 57.78 5.06	57.76 5.31	57.73 5.56	57.71 5.81	58	ı
ı	59 58.78 5.14	58.75 5.40	57.73 5.56 58.73 5.65 59.72 5.75	58.70 5.91	59	ľ
ı	60 59.77 5 23	59.75 5.49	60.725.85	59.70 6.01	60	ı
И	61 60.77 5.32 62 61.76 5.40	60.74 5.58	61.71 5.94	60.69 6.11	61	ı
1	63 62:76 5.49	61.74 5.67 62.74 5.76	62.71 6.04	61.69 6.21 62.68 6.31	62 63	ı
1	64 65.76 5.58	63.73 5.86	63.71 6.13	63.68 6.41	64	ı
ì	65 64.75 5.67	64.73 5.95	64.70 6.23	64.67 6.51	65	ı
ı	66 65.75 5.75	64.73 5.95 65.72 6.04	64.70 6.23 65.70 6.33	65.67 6.61	66	ı
1	67 66.75 5.84	66.72 6.13	66.69 6.42	66.66 6.71	67	ı
ı	68 67.74 5.93	67 71 6.22	67.69 6.52	67.66 6.81	68	1
n	69 68.74 6.01 70 69.73 6.10	68.71 6.31 69.71 6.41	68.68 6.61 69.68 6.71	68.65 6.91 69.65 7.01	69 70	ı
ı		70.70 6.50	70.67 6.81	70.64 7.11	71	ı
1	7170.73 6.19 7271.73 6.28		71.67 6.90	71.64 7.21	72	ŀ
ı	73 72.72 6.36	71.70 6.59 72.69 6.68	72.667.00	72.63 7.31	73	ı
ŀ	7473.726.45	73.69 6.77	73.667.09	73.63 7.41	74	ı
ı	75 74.71 6.54	74.69 6.86	74.657.19	74.62 7.51	75	ı
ł	7675.71 6.62	75.68 6.95	75.657.28	75.62 7.61	76	ı
ı	77 76.71 6.71 78 77 70 6.80	76.687.05	76.657.38	76.61 7.71 77.61 7.81	77 78	ı
ı	78 77.70 6.80 79 78.70 6.89		78.64 7.57	78.60 7.91	79	ı
ı	80 79.70 6.97	78.67 7.23 79.66 7.32	79.63 7.67	79.60 8.02	80	ı
ı	81 80.69 7.06	80.66 7.41	80.63 7.76	80.59 8.12	81	ı
ı	82 81.69 7.15	81.66 7.50	81.627.86	81.59 8.22	82	ı
u	83 82.68 7:23	82.65 7.59	82.62 7.96	82.58 8.32	83	ı
ı	84 83.68 7.32	83.65 7.69	83.61 8.05	83.58 8.42	84	ł
ı	85 84.68 7.41	84.64 7.78 85.64 7.87	84.61 8.15	84.57 8.52 85.57 8.62	85 86	ı
ı	86 85.67 7.50 87 86.67 7.58	86.647.96	85.60 8.24 86.60 8.34	86.56 8.72	87	ı
И	88 87.67 7.67	87.63 8.05	87.598.44	87.56 8.82	88	ı
I	89 88.66 7.76	88.63 8 14	88.59 8.53	88.55 8.92	89	ı
	90 89 66 7.84	89.62 8.24	89.59 8.63	89.55 9.02	90	1
	91 90.65 7.93	90.628.33	90.588.72	90.54 9.12	91	1
	92 91,35 8.02 93 92.65 8.11	91.618.42	91.588.82	91.54 9.22	92	1
	93 92.75 8.11 94 93.64 8.19	92.61 8.51 93.61 8.60	92.57 8.91 93.57 9.01	92.53 9.32 93.53 9.42	93 94	1
	95 94 64 8.28	94.60 8.69	94.56 9.11	94.52 9.52	95	ı
		95.60 8.78	95.56 9.20	95.52 9.62	96	1
	96 95.63 8.37 97 96.63 8.45	96.59 8.88	96.55 9.30	96.51 9.72	97	1
	98 97.63 8.54	97.59 8.97	97.55 9.39	97.51 9.82	98	1
	99 98.62 8.63	98-59 9.06	98.549.49	98.50 9.92	99	1
	100 99 62 8.72	99.59.9:15	Secretary representations	99.50 10.02	100	1
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1	5 85 Deg.	843 Deg	841 Deg	841 Deg.	0	I
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5 6 Deg.	61 Deg.	61 Deg.	63 Deg. D
Lat. Dep	Lat. Dep	Lat Dep	Lat. Dep #
1 0.99 0.10	0.99 0.11	0.99 0.11	0.99 0.12 1
2 1.99 0.21 3 2.98 0.31	1.99 0.22	1.99 0.23	1.99 0.24 2 2.98 0.35 3
	2.98 0.33	2.98 0.34	2.98 0.35 3
4 3.98 0.41 5 4.97 0.52	3.980.44	3.97 0.45 4.97 0.57	3.97 0.47 4 4.97 0.59 5
5 4.97 0.52 6 5.97 0.63	5.96 U.65	5.96 0.68	5.96 0.71 6
7 6.96 0.73	6.96 0.76	6.96 0.79	6.95 0.82 7
8 7.96 0.84	7.95 0.87	7.95 0.91	7.94 0.94 8
9 8.95 0.94	8.95 0.98	8.94 1.02	8.94 1.06 9
10 9.95 1.05	9.94 1.09	9.94 1.13	9.93 1 18 10
1110.941.15	10.93 1.20	10.93 1.25	10.92 1.29 T1
12 11,93 1.25 13 12.93 1.36	11.93 1.31 12.92 1.42	11.921.36	11.92 1.41 12 12.91 1.53 13
14 13.92 1.46	13.92 1.52	12.92 1.47 13.91 1.59	13.90 1.65 14
15 14.92 1.57	14.91 1.63	14.90 1.70	14.90 1.76 15
16 15.91 1.67	15.90 1.74	15.90 1.81	15.89 1.88 16
17 16.91 1.78	16.90 1 85	16.89 1.92	16.88 2.00 17
18 17.90 1.88	17.89 1.96	17.88 2.04	17.88 2.12 18
19 18.90 1.99	18.89 2.07	18.88 2.15	18.87 2.23 19
20 19.89 2.09	19.88 2.18	19.87 2.26	19.86 2.35 20
21 20.88 2.20		20.87 2.38	20.85 2.47 21 21.85 2.59 22
22 21.88 2.30 23 22.87 2.40	21.87 2.40 22 86 2.50	21.86 2.49 22.85 2.60	22.84 2.70 23
24 23.87 2.51	23.86 2.61	23.85 2.72	23.83 2.82 24
25 24.86 2.61	24.85 2.72	24.84 2.83	24.83 2.94 25
26 25.86 2.72	25.85 2.83	25.83 2.94	25.82 3.06 26
27 26.85 2.82	26.84 2.94	26.83 3.06	26.81 3.17 27
28 27 85 2.93	27.83 3.05	27.82 3.17	27.81 3.29 28
29 28.84 3.03 30 29.84 3.14	28.83 3.16 29.82 3.27	28.81 5.28	28.80 3.41 29 29.79 3.53 30
THE RESERVE TO SHARE THE PARTY OF THE PARTY	The second second	29.81 3.40	
31 30.88 3.24 32 31.82 3.34	30.82 3.37 31.81 3.48	30.80 3.51 31.79 3.62	30.79 3.64 31 31.78 3.76 32
3231.823.34 3332.823.45	32.80 3.59	32.79 3.74	31.78 3.76 32 32.77 3.88 33
34 33.81 3.55	33.80 3.70	33.78 3.85	35.76 4.00 34
35 34.81 3.66	34.79 3.81	34.78 3.96	34.76 4.11 35
36 35.80 3.76	35.79 3.92	35.77 4.08	35.75 4.23 36
37 36.80 3.87	36.78 4.03	36.76 4.19	36.75 4.35 37
38 37.79 3.97	37.77 4.14	37.76 4.30 38.75 4.41	37.74 4.47 38
39 38.79 4.08 40 39.78 4.18	38.77 4.25 39.76 4.35	39.74 4.53	38.73 4.58 39 39.72 4.70 40
The second second	40.76 4.46		
41 40.78 4.29 42 41.77 4.39	41.75 4.57	40.74 4.64 41.73 4.76	40.72 4.82 41 41.71 4.94 42
43 42.76 4.49	42.74 4.68	42.72 4.87	42.70 5.05 43
44 43.76 4.60		43.724.98	43.70 5.17 44
45 44.75 4.70	43.744.79 44.73 4.90	44.71 5.09	44.69 5.29 45
46 45.75 4.81	45.73 5.01	45.70 5.21	45.68 5.41 46
47 46.74 4.91	46.72 5.12	46.70 5.32	46.67 5.52 47
48 47.74 5.02	47.71 5.23 48.71 5.34	47.69 5.43 48.69 5.55	47.67 5.64 48 48.66 5.76 49
49 48.73 5.12 50 49.73 5.23	49.70 5.44	49.68 5.66	49.65 5 88 50
Dep. Lat	Dep. Lat	Dep. Lat	Dep. Lat
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5 84 Deg.	833 Deg	831 Deg	831 Deg 5

<b>*</b>		CONTRACTOR NAMED IN	
5 6 Deg.	61 Deg	61 Deg.	63 Deg [ ]
Lat Dep	Lat. Dep.	Lat. Dep.	Lat. Dep.
51 50.72 5.33	50.70 5.55	50.67 5.77	50.65 5.99 51
52 51.72 5.44	51.69 5.66	51.67 5.89	51.64 6.11 52
53 52.71 5.54	52.68 5.77	52.66 6.00	52.63 6.23 53
54 53.70 5.64 55 54.70 5.75	53.68 5.88	53.65 6.11	53.63 6.35 54
55 54.70 5.75 56 55.69 5.85	54.67 5.99 55.67 6.10	54.65 6.23 55.64 6.34	54.62 6.46 55 55.61 6.58 56
57 56.69 5.96	56.66 6.21	56.63 6.45	56.60 6.70 57
58 57.68 6.06	57.66 6.31	57.63 6.57	57.60 6.82 58
59 58.68 6.17	58.65 6.42.	58.62 6.68	58.59 6.93 59
60 59.67   6.27	59.64 6.53	59.61 6.79	59.58 7.05 60
61 60.67 6.38	60.64 6.64	60.61 6.91	60.58 7.17 61
62 61.66 6.48 63 62.65 6.59	62.63 6.86	61.60 7.02 62.60 7.13	61.57 7.29 62
64 63.65 6.69	63.62 6.97	62.60 7.13 63.59 7.25	62.56 7.40 63 63.56 7.52 64
65 64.64 6.79	64.61 7.08	64.58 7.36	64.55 7.64 65
66 65.64 6.90	65.61 7.19	65.58 7.47	65.54 7.76 66
67 66.63 7.00	66.60 7.29	66.57 7.58	66.54 7.88 67
68 67.63 7.11	67.60 7.40	67.56 7.70	67.53 7.99 68
69 68.62 7.21 70 69.62 7.32	68.59 7.51 69.58 7.62	68.56 7.81 69.55 7.92	68.52 8.11 69
71 70.61 7.42	70.58 7.73	70.54 8.04	69.51 8.23 70
72 71.61 7.53	71.57 7.84	71.54 8.15	70.51 8.35 71 71.50 8.46 72
73 72.60 7.63	72.57 7.95	72.53 8.26	72.49 8.58 73
74 73.59 7.74	73.56 8.06	73.52 8.38	73.49 8.70 74
7574.59 7.84	74.55 8.17	74.52 8.49	74.48 8.82 75
7675.58 7.94	75.55 8.27	75.51 8.60	75.47 8.93 76
77 76.58 8.05 78 77.57 8.15	76.54 8.38	76.51 8.72	76.47 9.05 77
78 77.57 8.15 79 78.57 8.26	77.54 8.49 78.53 8.60	77.50 8.83 78.49 8.94	77.46 9.17 78 78.45 9.29 79
80 79.56 8.36	79.53 8.71	79.49 9.06	79.45 9.40 80
81 80.56 8.47	80.52 8.82	80.48 9.17	80.44 9.52 81
82 81.55 8.57	81.51 8.93	81.47 9.28	81.43 9.64 82
83 82.55 8.68	82.51 9.04	82.47 9.40	82,42 9.76 83
84 83.54 8.78	83.50 9.14	83.46 9.51	83.42 9.87 84
85 84.53 8.88 86 85.53 8.99	84.50 9.25	84.45 9.62 85.45 9.74	84,41 9.99 85
87 86.52 9.09	85.49 9.36 86.48 9.47	85.45 9.74 86.44 9.85	85.40 10.11 86 86.40 10.23 87
88 87.52 9.20	87.48 9.58	87.43 9.96	87.39 10.34 88
89 88.51 9.30	88.47 9.69	88.43 10.08	88.38 10.46 89
90 89.51 9.41	89.47 9.80	89.42 10.19	89.38 10.58 90
91 90.50 9.51	90,46 9.91	90.42 10.30	90.37 10.70 91
92 91.50 9.62	91.45 10 02	91.41 10.41	91.36 10.81 92
93 92.49 9.72	92.45 10.12	92.40 10.53	92.36 10.93 93
94 93.49 9.83 95 94.48 9.93	93.44 10.23	93.40 10.64 94.39 10.75	93.35 11.05 94 94.34 11.17 95
96 95.47 10.03	95.43 10.45	95.38 10.87	95.33 11.28 96
97 96.47 10.14	96.42 10.56	96.38 10.98	96.33 11.40 97
98 97.46 10.24	97.42 10.67	97.37 11.09	97.32 11.52 98
99 98 46 10.35	98.41 10.78	98.36 11.21	98.31 11.64 99
100 99.45 10.45	99.41 10 89	99.36 11.32	99.31 11.75 100
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2 1.99 0.24	Street or other Party and Street or other Pa		Section in the sale	
3 2.980.57		1.980.25	1 00 0 96	1.980.27 2
5 4.960.61 4.960.63 4.960.65 4.950.66 5.96 0.78 6.940.88 6.940.91 6.940.94 7 7.941.01 7.93 1.04 7.93 1.08 8 7.940.97 7.941.01 7.93 1.04 7.93 1.08 8 8 7.940.97 7.941.01 7.93 1.04 7.93 1.08 8 8 7.940.97 7.941.01 7.93 1.04 7.93 1.08 8 1.09 1.11 10.92 1.34 10.91 1.39 10.91 1.34 10.90 1.58 12.90 1.64 12.89 1.70 12.88 1.75 13 13.2.90 1.58 12.90 1.64 12.89 1.70 12.88 1.75 13 13.87 1.89 1.62 12 15.14 13.90 1.71 13.89 1.77 13.88 1.83 13.87 1.89 14 14.81 1.89 1.65 12.90 1.64 12.89 1.70 12.88 1.75 13 13.87 1.89 14 14.87 1.96 14.86 2.02 15 16.86 2.15 16.85 2.22 16.84 2.29 17 17.86 2.19 17.85 2.35 17.84 2.43 18 19.84 2.48 18.83 2.56 19 19.85 2.44 18.85 2.40 18.84 2.48 18.83 2.56 19 19.85 2.44 18.85 2.40 18.84 2.48 18.83 2.56 19 19.85 2.44 18.85 2.40 18.84 2.48 18.83 2.50 22 21.84 2.68 2.32 23.81 3.03 23.79 3.13 23.78 3.29 22.82 2.80 3.00 22.79 3.10 23 22.82 2.90 22.80 3.00 22.79 3.10 23 22.82 2.90 22.80 3.00 22.79 3.10 23 23.78 3.54 24 24 27.8 25.79 3.28 25.78 3.9 25.76 3.51 26 25.81 3.17 27.78 3.53 27.76 3.65 27.74 3.78 28 27.79 3.41 27.78 3.53 27.76 3.65 27.74 3.78 28 29.28 3.75 3.09 31.76 3.90 31.74 4.04 31.73 4.18 31.71 4.32 32 33.75 4.02 33.73 4.29 33.71 4.44 33.69 4.58 34 35.54.74 4.27 34.72 4.42 34.70 4.57 34.68 4.72 35 36 35.73 4.39 33.77 4.63 37.70 4.80 37.70 4.80 37.70 4.87 37.70 4.80 37.70 4.87 37.70 4.80 37.70 4.87 37.70 4.80 37.70 4.87 37.70 4.80 37.70 4.87 37.70 4.80 37.70 4.87 37.70 4.80 37.70 4.80 37.70 4.87 37.70 4.80 37.70 4.80 37.70 4.87 37.70 4.80 37.70 4.87 37.70 4.80 37.70 4.80 37.70 4.87 37.70 4.80 37.70 4.87 37.70 4.80 37.70 4.80 37.70 4.87 37.70 4.80 37.70 4.80 37.70 4.87 37.70 4.80 37.70 4.80 37.70 4.87 37.70 4.80 37.70 4.87 37.70 4.80 37.70 4.80 37.70 4.87 37.70 4.80 37.70 4.80 37.70 4.80 37.70 4.80 37.70 4.80 37.70 4.80 37.70 4.80 37.70 4.80 37.70 4.80 37.70 4.80 37.70 4.80 37.70 4.80 37.70 4.80 37.70 4.80 37.70 4.80 37.70 4.80 37.70 4.80 37.70 4.80 37.70 4.80 37.70 4.80 37.70 4.80 37.70 4.80 37.70 4.80 37.70 4.80 37.70 4.80 37.70 4.80 37.70 4.80 37.70 4.80 37.70 4.80 37.70 4.80 37.70 4.80 37.70	3 2.98 0.37	2.980.38	2.97 0.39	2.97 0.40 3
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Ti   10.92   1.34   10.91   1.39   10.91   1.44   10.90   1.48   11   11.91   1.46   11.90   1.51   11.90   1.57   11.89   1.62   12   13.12.90   1.58   12.90   1.64   12.99   1.70   12.88   1.75   13   14.13.90   1.71   13.88   1.77   13.88   1.83   13.871.89   14   15.14.89   1.83   14.87   1.96   14.86   2.02   15   16.15.88   1.95   15.87   2.02   15.86   2.09   15.85   2.16   16   17.16.87   2.07   18.17.86   2.17   17.86   2.17   17.85   2.35   17.84   2.43   18   18.85   2.40   18.84   2.48   18.83   2.56   19   19.85   2.44   19.84   2.52   19.83   2.61   19.82   2.70   20   120.84   2.56   20.83   2.65   20.82   2.74   20.81   2.83   21   22.83   2.83   2.83   2.83   2.82   2.90   22.80   3.00   22.79   3.10   23.79   3.13   23.78   3.25   24.81   3.05   24.80   3.15   24.79   3.26   24.77   3.37   25   25.80   3.29   25.80   3.00   22.79   3.10   23.79   3.13   23.78   3.26   24.77   3.37   25   25.80   3.29   25.80   3.29   25.76   3.51   26.75   3.64   27   27.78   3.53   27.76   3.65   27.74   3.78   28   29.28   29.76   3.65   27.74   3.78   28   29.28   29.76   3.65   27.74   3.78   28   29.78   3.66   29.76   3.78   30.75   3.91   31.37   37.8   30.75   3.91   31.37   31.74   34.18   31.71   4.32   32   33.77   3.46   35.79   35.71   4.54   35.59   4.70   35.67   4.85   36   35.73   4.39   35.71   4.54   35.69   4.79   36.65   4.24   36.75   5.12   41.66   5.30   41.64   5.48   41.62   5.66   42   44.67   5.48   44.64   5.68   5.05   46.66   5.55   46.66   5.55   46.66   5.73   46.62   5.93   46.60   6.13   45.56   6.14   44.66   5.76   48.66   5.81   44.66   5.80   44.56   5.63   44.66   5.80   44.66   5.80   44.66   5.80   44.66   5.80   44.66   5.80   44.66   5.80   44.66   5.80   44.66   5.80   44.66   5.80   44.66   5.80   44.66   5.80   44.66   5.80   44.66   5.80   44.66   5.80   44.66   5.80   44.66   5.80   44.66   5.80   44.66   5.80   44.66   5.80   44.66   5.80   44.66   5.80   44.66   5.80   44.66   5.80   44.66   5.80   44.66   5.80   44.66   5.80   44.66   5.80   44.66   5.80	9 8.93 1.10			8.92 1.21 9
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13 12.90 1.58				
14   13.90   1.71   13.89   1.77   13.88   1.83   13.87   1.89   14   15   14.89   1.83   14.88   1.89   14.87   1.96   14.86   2.02   15   16.15.88   1.95   15.86   2.09   15.85   2.16   16   16.87   2.07   16.86   2.15   16.85   2.22   16.84   2.29   17   18   17.86   2.19   17.86   2.27   17.85   2.35   17.84   2.43   18   19.88   2.44   19.83   2.56   19   19.85   2.44   19.83   2.65   20.19.85   2.44   2.56   20.83   2.65   20.82   2.74   20.81   2.83   21   22   21.84   2.68   22.82   2.90   22.80   3.00   22.79   3.10   23   24.81   3.15   24.79   3.26   24.81   3.15   24.79   3.26   24.81   3.17   25.79   3.28   25.78   3.39   25.76   3.51   26.75   3.64   27   28   27.79   3.41   27.78   3.53   27.76   3.65   27.74   3.78   29   28.78   3.53   27.76   3.65   27.74   3.78   29   28.78   3.53   32.75   4.02   33.73   4.05   30.75   3.91   30.77   3.78   30.75   3.91   30.77   3.78   30.75   3.91   30.77   3.78   30.75   3.91   30.77   3.78   33.73   4.05   30.72   4.18   31.71   4.32   32.33   32.75   4.02   33.73   4.05   33.73   4.05   30.72   4.18   31.73   4.18   31.71   4.32   32.33   32.75   4.02   33.73   4.05   33.71   4.44   33.369   4.92   33.871   4.75   38.69   4.92   38.67   5.09   38.64   5.26   39.70   4.87   39.68   5.05   39.66   5.22   39.63   5.39   40.67   5.12   41.66   5.30   41.64   5.48   41.62   5.66   42.44   43.67   5.36   43.65   5.55   44.60   5.57   44.59   6.07   45.44   43.67   5.36   44.66   5.57   48.66   5.57   48.66   5.57   48.66   5.57   48.66   5.57   48.66   5.57   48.66   5.57   48.66   5.57   48.66   5.57   48.66   5.57   48.66   5.67   48.66   5.67   48.66   5.67   48.66   5.67   48.66   5.67   48.66   5.67   48.66   5.67   48.66   5.67   48.66   5.67   48.66   5.67   48.66   5.67   48.66   5.67   48.66   5.67   48.66   5.67   48.66   5.67   48.66   5.67   48.66   5.67   48.66   5.67   48.66   5.67   48.66   5.67   48.66   5.67   48.66   5.67   48.66   5.67   48.66   5.67   48.66   5.67   48.66   5.67   48.66   5.67   48.66   5.67   48.66   5.67   48.66   5.67				
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17   16.87   2.07   16.86   2.15   16.85   2.22   16.84   2.29   17   18   17.86   2.15   17.86   2.27   17.85   2.35   17.84   2.43   18   18.85   2.40   18.84   2.48   18.83   2.56   19.82   2.79   2.081   2.83   21   20.84   2.56   20.83   2.65   20.82   2.74   20.81   2.83   21   22   21.84   2.68   21.82   2.78   21.81   2.87   21.80   2.97   22   22.83   2.80   22.82   2.90   22.80   3.00   22.79   3.10   23   23.24   24.81   3.05   24.80   3.15   24.79   3.26   24.77   3.37   25   26   25.81   3.17   25.79   3.28   25.78   3.39   25.76   3.51   26   22.78   28   27.79   3.66   28.77   3.66   29.76   3.79   28   27.76   3.65   27.74   3.78   28   29.28.78   3.53   29.76   3.79   29.74   3.92   29.73   4.05   30   29.78   3.66   29.76   3.79   29.74   3.92   29.73   4.05   30   31.74   4.04   31.73   4.18   31.71   4.32   32   33.37   54.14   33.73   4.29   33.71   4.44   33.69   4.59   35.71   4.54   35.69   4.70   35.67   4.85   36   35.73   4.39   35.71   4.54   35.69   4.70   35.67   4.85   36   39.70   4.87   39.68   5.05   39.8.71   4.75   36.65   5.32   40.63   5.53   41.44   36.75   5.36   42.66   5.53   41.66   5.30   41.64   5.48   41.62   5.66   42.46   5.66   5.12   43.46   5.56   5.55   46.62   5.85   47.64   5.65   5.81   44.66   5.76   5.34   47.64   6.55   5.77   48.67   6.57   6.53   48.616   6.18   48.85   6.60   49.54   6.77   5.50   49.60   6.31   49.57   6.53   49.54   6.79   5.00   49.60   6.31   49.57   6.53   49.54   6.79   5.00   49.60   6.31   49.57   6.53   49.54   6.79   5.00   49.60   6.31   49.57   6.53   49.54   6.79   5.00   49.60   6.31   49.57   6.53   49.54   6.79   5.00   49.60   6.31   49.57   6.53   49.54   6.79   5.00   49.60   6.31   49.57   6.53   49.54   6.79   5.00   49.60   6.31   49.57   6.53   49.54   6.79   5.00   49.60   6.31   49.57   6.53   49.54   6.79   5.00   49.60   6.31   49.57   6.53   49.54   6.79   5.00   49.60   6.31   49.57   6.53   49.54   6.79   5.00   49.60   6.31   49.57   6.53   49.54   6.79   5.00   49.60   6.31   49.57   6.53   49.54   6.79	15 14.89 1.83		14.87 1.96	
17,16.87,2.07   16.86,2.15   17.86,2.22   16.84,2.29   17   1817.86,2.19   17.86,2.27   17.84,2.43   18   18.85,2.40   18.84,2.48   18.83,2.56   19   19.82,2.70   20   19.85,2.44   20.83,2.65   20.82,2.74   20.81,2.83   21   22,2.83,2.83   22.82,2.90   22.80,3.00   22.79,3.10   23   24,23,82,2.92   23.81,3.03   23,79,3.13   23,783,2.42   24,26,2.58   24,279,3.26   24,773,37   25   26,25,81,3.17   25,79,3.28   25,78,3.39   26,773,52   26,773,52   26,773,52   26,773,52   26,773,52   26,773,53   27,26,80,3.9   27,28,3.53   27,763,65   27,74,3.78   28,277,3.78   30,29,78,3.66   29,76,3.79   29,74,3.92   29,73,4.05   30   29,78,3.66   29,76,3.79   29,74,3.92   29,73,4.05   30   31,76,3.90   31,74,4.04   31,73,4.18   31,71,4.32   32,33,75,4.02   32,74,4.16   32,72,4.31   32,70,4.45   33,33,75,4.14   33,73,4.29   33,71,4.44   33,69,4.58   34,33,75,4.14   33,73,4.29   33,71,4.44   33,69,4.58   34,33,75,4.14   33,73,4.29   33,71,4.44   33,69,4.58   34,34,34,34,34,34,34,34,34,34,34,34,34,3	16 15.88 1.95	15.87 2.02	15.86 2.09	
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90 89.33 10.97	89.28 11.36	89.23 11.75	89.18 12.14 90	
91 90.32 11.09	90.27 11.48	90.22 11.88	90.17 12.27 91	
92 91.31 11.21	91.26 11.61	91.21 12.01	91.16 12.41 92	
93 92.31 11.33	92.26 11.74	92.20 12.14	92.15 12.54 93	
94 93.30 21.46	93.25 11.86	93.20 12.27	93.14 12.68 94	
95 94.29 11.58	94.24 11.99	94.19 12.40	94.13 12.81 95	
96 95.28 11.70	95.23 12.12	95.18 12.53	95.12 12.95 96	
97 96.28 11.82	96.22 12.24	96.17 12.66	96.1113.08 97	
98 97.27 11.94 99 98.26 12.07	97.22 12.37 98.21 12.49	97.16 12.79 98.15 12.92	97.10 13.22 98 98.10 13.35 99	
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Ш	Lat. Dep	Lat. Dep	Lat. Dep	Lat. Dep 2	п
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1	2 1.98.0.28 3 2.97 0.42	1.98 0.29	1.98 0.30	1.98 0.30 2	
п		2.97 0.43	2.97 0.44	2.97 0.46 3 3.95 0.61 4 4.94 0.76 5 5.93 0.91 6 6.92 1.06 7 7.91 1.22 8	И
п	4 3.96 0.56	3.96 0.57	3.96 0.59 4.95 0.74	3.95 0.61 4	п
r	4 3.96 0.56 5 4.95 0.70 6 5.94 0.84 7 6.93 0.97 8 7.92 1.11	4.95 0.72 5.94 0.86	5.93 0.89	4.94 0.76 5 5.93 0.91 6	
п	7 6.93 0.97	6.93 1.00	6.92 1.03	6.92 1.06 7	
П	8 7.92 1.11	7.92 1.15	7.91 1.18	7.911.22 8	N
и	9 8.91 1.25	8.91 1.29	8.90 1.33	8.90[1.37] 9	N
ш		9.90 1.43	9.89 1.48	9.88 1.52 10	
н	11 10.89 1.53	10.89 1.58	10.88 1.63	10.87 1.67 11	17
П	12 11.88 1.67	11.88 1.72	11.87 1.77	11.86 1.83 12	ı
П	13 12.87 1.81 14 13.86 1.95	12.87 1.87	12.86 1.92 13.85 2.07	12.85 1.98 13 13.84 2.13 14	
ш	15 14.85 2.04	13.86 2.01 14.85 2.15	14.84 2.22	13.84 2.13 14 14.83 2.28 15	И
П	16 15.84 2.23	15.84 2.30	15.82 2.36	15.81 2.43 16	ı
н	17 16.83 2.32	16.83 2.44	16.81 2.51	16.80 2.59 17	
ı,	18 17.82 2.51	17.81 2.58 18.80 2.73	17.80 2.66	17.79 2.74 18 18.78 2.89 19	ı
п	19 18.82 2.64	18.80 2.73	18.79 2.81		ı
۱	20 19.81 2.78	19.79 2.87	19.78 2.96	19.77 3.04 20	ı
н	21 20.80 2.92	20.78 3.01	20.77 3.10	20.76 3.19 21	ı
ı	22 21.79 3.06 23 22.78 3.20	21.77 3.16 22.76 3.30	21.76 3.25 22.75 3.40	21.74 3.35 22 22.73 3.50 23	и
ı	24 23.77 3.34	23.75 3.44	23.74 3.55	23 72 3 65 24	п
и	25 24.76 3.48	24.74 3.59	24.73 3.70	23.72 3.65 24 24.71 3.80 25	
п	26 25.75 3.62	25.73 3.73	25.71 3.84	25.70 3.96 26	п
٦	27 26.74 3.76	26.72 3.87	26.70 3.99	26.69 4.11 27	П
ı	28 27.78 3.90 29 28.72 4.04	27.71 4.02	27.69 4.14	27.67 4.26 28	ı
н	30 29.71 4.18	28.70 4.16 29.69 4.30	28.68 4.29 29.67 4.43	28.66 4.41 29 29.65 4.56 30	l
и	21 20 70 4 21	30.68 4.45	30.66 4.58		ı
и	31 30.70 4.31 32 31.69 4.45	31.67 4.59	31.65 4.73	30.64 4.72 31 31.63 4.87 32	ı
н	33 32.68 4.59	32.66 4.74	32.64 4.88	32.62 5.02 33	L
1	34 33.67 4.73	33.65 4.88	33.63 5.03	33.60 5.17 34	ı
ı	35 34.66 4.87 36 35.65 5.01	34.64 5.02 35.63 5.17	34.62 5.17 35.60 5.32	34.59 5.32 35	1
ı	36 35.65 5.01	35.63 5.17	35.60 5.32	35.58 5.48 36	
ı	37 36.64 5.15	36.62 5.31	36.59 5.47 37.58 5.62	36.57 5.63 57	и
ı	38 37.63 5.29 39 38.62 5.43	37.61 5.45 38.60 5.60	38.57 5.76	37.56 5.78 38 38.55 5.93 39	
ш	40 39.61 5.57	39.59 5.74	39.56 5.91	39.53 6.08 40	L
ı	41 40.60 5.71	40.58 5.88	40.55 6.06	40.52 6.24 41	и
	42 41.59 5.85	41.57 6.03		41.51 6.39 42	1
и	43 42.58 5.98	42.56 6.17	41.54 6.21 42.53 6.36	42.50 6.54 43	ı
п	44 43.57 6.12	43,54 6.31	43.52 6.50	43.49 6.69 44	ı
1	45 44.56 6.26	44.53 6.46	44.51 6.65	44.48 6.85 45	1
	46 45.55 6.40 47 46.54 6.54	45.52 6.60 46.51 6.74	45.49 6.80 46.48 6.95	45.467.00 46	1
1	48 47.53 6.68	47.50 6.89	47.47 7.09	46.45 7.15 47 47.44 7.30 48	
	49 48.52 6.82	48.49 7.03	48.46 7.24	48.43 7.45 49	
1	50 49.51 6.96	49.48 7.17	49.45 7.39	49.42 7.61 50	
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52 51.49 7.24	51.46 7.46	51.43 7.69	51.39 7.91 52
53 52.48 7.38	52.45 7.61	52.42 7.83	52.38 8.06 53
54 53.47 7.52	53.44 7.75	53.41 7.98	53.37 8.21 54
55 54.46 7.65	54.43 7.89	54.40 8.13	54.36 8.37 55
56 55.46 7.79	55.42 8.04	55.38 8.28	55.35 8.52 56
57 56.45 7.93	56.41 8.18	56.37 8.43	56.34 8.67 57
58 57.44 8.07	57.40 8.32 58.39 8.47	57.36 8.57	57.32 8.82 58
59 58.43 8.21 60 59.42 8.35	59.38 8.61	58.35 8.72 59.34 8.87	58.31 8.98 59 59.30 9.13 60
61 60.41 8.49	60.37 8.75	60.33 9.02	Personal Property and
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63 62.39 8.77	62.35 9.04	62.31 9.31	61.28 9.43 62 62.27 9.58 63
64 63.38 8.91	63.34 9.18	63.30 9.46	63.26 9.74 64
65 64.37 9.05	64.35 9.33	64.29 9.61	64.24 9.89 65
66 65.36 9.19	65.32 9.47	65.28 9.76	65.23 10.04 66
67 66.35 9.52	66.31 9.61	66.26 9.90	66.22 10.19 67
68 67.54 9.46	67.30 9.76	67.25 10.05	67.21 10.34 68
69 68.33 9.60	68.29 9.90	68.24 10.20	68.20 10.50 69
70 69.32 9.74	69.28 10.04	69.23 10.35	69.19 10.64 70
71 70.31 9.88	70.27 10.19	70.22 10.49	70.17 10.80 71
72 71.30 10.02	71.25 10.33	71.21 10.64	71.16 10.95 72
73 72.29 10.16	72.24 10.47	72.20 10.79	72.15 11.10 73
74 73.28 10.30	73.23 10.62	73.19 10.94	73.14 11.26 74
75 74.27 10.44 76 75.26 10.58	74.22 10.76	74.18 11.09	74.13 11.41 75
A SECURITY OF THE PARTY OF THE	75.21 10.91 76.20 11.05	75.17 11.23 76.15 11.38	75.19 11.56 76 76.10 11.71 77
	77.19 11.19	77.14 11.53	76.10 11.71 77 77.09 11.87 78
78 77.24 10.86 79 78.23 10.99	78.18 11.34	78.13 11.68	78.08 12.02 79
80 79.22 11.13	79.17 11.48	79.12 11.82	79.07 12.17 80
81 80.21 11.27	80.16 11.62	80.11 11.97	80.06 12.32 81
8281.2011.41	81.15 11.77	81.10 12.12	81.05 12.47 82
83 82.19 11.55	82.14 11.91	82.09 12.27	82.03 12.63 83
84 83.18 11.69	83.13 12.05	83.08 12.42	83.02 12.78 84
85 84.17 11.83	84.12 12.20	84.07 12.56	84.01 12.93 85
86 85.16 11.97	85.11 12.34	85.06 12.71	85.00 13.08 86
87 86.15 12.11	86.10 12.48	86.04 12.86	85.99 13.23 87
88 87:14 12:25 89 88:13 12:39	87.09 12.63	87.03 13.01	86.98 13.39 88
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90 89.12 12.53	89.07 12.91	89.01 13.30	88.95 13.69 90
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9291.1012.80	91.05 13.20	90.99 13.60	90.93 14.00 92
93 92.09 12.94	92.04 13.34	91.98 13.75	91.92 14.15 93 92.91 14.30 94
94 98.09 13.08 95 94.08 13.22	93.03 IS.49 94.02 13.63	92.97 13.89 93.96 14.04	92.91 14.30 94 93.89 14.45 95
96 95.07 13.36	95.01 13.78	94.95 14.19	94.88 14.60 96
97 96.06 13.50	96.00 13.92	95.93 14.34	95.87 14.76 97
98 97.05 13 64	96.99 14.06	96.92 14.49	96.86 14.91 98
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1         0.99 0.16         0.99 0.16         0.99 0.17         0.99 0.17         1           2         1.98 0.51         1.97 0.32         1.97 0.33         1.97 0.34         2           3         2.96 0.47         2.96 0.48         2.96 0.50         2.96 0.51         3           4         3.95 0.63         3.95 0.64         3.95 0.66         3.94 0.68         4           5         4.94 0.78         4.93 0.80         4.93 0.83         4.93 0.85         5           6         5.93 0.94         5.92 0.96         5.92 0.99         5.91 1.02         6           7         6.91 1.10         6.911.13         6.90 1.16         6.901.19         7           8         7.90 1.25         7.90 1.29         7.89 1.32         7.88 1.35         8           9         8.89 1.41         8.88 1.45         8.88 1.49         8.87 1.52         9           10         9.88 1.56         9.87 1.61         9.86 1.65         9.86 1.69         10           11         10.86 1.72         10.86 1.77         10.85 1.82         10.84 1.86         11
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3 2.96 0.47 2.96 0.48 2.96 0.50 2.96 0.51 3 4 3.95 0.63 3.95 0.64 3.95 0.66 3.94 0.68 4 4 9.30 8.0 4.93 0.83 4.93 0.85 5 6 5.93 0.94 5.92 0.96 5.92 0.99 5.91 1.02 6 7 6.91 1.10 6.91 1.13 6.90 1.16 6.90 1.19 7 7.90 1.25 7.90 1.29 7.89 1.32 7.88 1.35 8 9 8.89 1.41 8.88 1.45 8.88 1.49 8.87 1.52 9 9 8.89 1.41 8.88 1.45 8.88 1.49 8.87 1.52 9 10 9.88 1.56 9.87 1.61 9.86 1.65 9.86 1.69 10 11 10.86 1.72 10.86 1.77 10.85 1.82 10.84 1.86 11
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7 6.91 1.10 6.91 1.13 6.90 1.16 6.90 1.10 7 8 7.90 1.25 7.90 1.29 7.89 1.32 7.88 1.35 8 9 8.89 1.41 8.88 1.45 8.88 1.49 8.87 1.52 9 10 9.88 1.56 9.87 1.61 9.86 1.65 9.86 1.69 10 11 10.86 1.72 10.86 1.77 10.85 1.82 10.84 1.86 11
8     7.90     1.25     7.90     1.29     7.89     1.32     7.88     1.35     8       9     8.89     1.41     8.88     1.45     8.88     1.49     8.87     1.52     9       10     9.88     1.56     9.87     1.61     9.86     1.65     9.86     1.69     10       11     10.86     1.72     10.86     1.77     10.85     1.82     10.84     1.86     11
9 8,89 1.41 8.88 1.45 8.88 1.49 8.87 1.52 9 10 9.88 1.56 9.87 1.61 9.86 1.65 9.86 1.69 10 11 10.86 1.72 10.86 1.77 10.85 1.82 10.84 1.86 11
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13 12.84 2.03   12.83 2.09   12.82 2.15   12.81 2.20 13
13 12.84 2.03   12.83 2.09   12.65 2.15   12.81 2.20 13 14 13.83 2.19   13.82 2.25   13.81 2.31   13.80 2.37 14
15 14.82 2.35   14.80 2.41   14.79 2.48   14.78 2.54 15
16 15.80 2.50   15.79 2.57   15.78 2.64   15.77 2.71 16
17 16.79 2.66 16.78 2.73 16.77 2.81 16.75 2.88 17
18 17.78 2.82   17.77 2.89   17.75 2.97   17.74 3.05  18
19 18.77 2.97 18.75 3.05 18.74 3.14 18.73 3.22 19
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26 25.68 4.07 25.66 4.18 25.64 4.29 25.62 4.40 26
27 26.67 4.22 26.65 4.34 26.63 4.46 26.61 4.57 27
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29 28.64 4.54 28.62 4.66 28.60 4.79 28.58 4.91 29
30 29.63 4.69    29.61 4.82    29.59 4.95    29.57 5.08  30
31 30.62 4.85 30.60 4.98 30.57 5.12 30.55 5.25 31
32 31.61 5.01 31.58 5.14 31.56 5.28 31.54 5.42 32
33 32.59 5.16 32.57 5.30 32.55 5.45 32.52 5.59 33 54 33.58 5.32 33.56 5.47 33.53 5.61 33.51 5.76 34
34 33.58 5.32 33.56 5.47 33.53 5.61 33.51 5.76 34
35 34.57 5.48 34.54 5.63 34.52 5.78 34.49 5.93 35
3635.565.63 35.535.79 35.515.94 35.486.10 36
37 36.54 5.79   36.52 5.95   36.49 6.11   36.47 6.27   37 38 37.53 5.94   37.51 6.11   37.48 6.27   37.45 6.44   38
3938.526.10 38 49 6.27 38.47 6.44 38.44 6.60 39
40 39.51 6.26 39.48 6.43 39.43 6.60 39.42 6.77 40
41 40.50 6.41 40.47 6.59 40.44 6.77 40.41 6.94 41
42 41.48 6.57 41.45 6.75 41.42 6.92 41.39 7.11 42
43 42 47 6.73   42 44 6.91   42 41 7.10   42 38 7.28   43
44 43 46 6 88 43 43 7 07 43 40 7 26 43 36 7 45 44
45 44.45 7.04 1.44.41 7.23 1.44.38 7.43 1.44.35 7.69 4.5
46 45.43 7.20 45.40 7.39 45.37 7.59 45.34 7.79 46
47/46.49/7.35   46.39/7.55   46.36/7.76   46.39/7.96   47
48.47.417.51 47.387.72 47.347.92 47.318.13 48
49.48.407.67 48.367.88 48.338.09 48.298.30 49 50.49.387.82 49.358.04 49.328.25 49.288.47 50
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53 52.35 8.29	52.31 8.52	52.27 8.75	52.23 8.98 53	i
54 53.34 8.45	53.30 8.68	53.26 8.91	53.22 9.14 54	ı
55 54.32 8.60	54.28 8.84	54.25 9.08	54.21 9.31 55	ŧ
56 55.31 8.76	55.27 9.00	55.23 9.24	55.19 9.48 56	п
57 56.30 8.92 58 57.29 9.07	56.26 9 16 57.25 9.32	56.22 9.41	56.18 9.65 57 57.16 9.82 58	1
58 57.29 9.07 59 58.27 9.23	57.25 9.32 58.23 9.48	57.20 9.57 58.19 9.74	57.16 9.82 58 58.15 9.99 59	и
60 59.26 9.39	59.22 9.64	59.18 9.90	59.13 10.16 60	п
61 60.25 9.54	60.21 9.81	60.16 10.07	60.12 10.33 61	ш
62 61 24 9.70	61.19 9.97	61.15 10.23	61.10 10.50 62	Ш
63 62.22 9.86	62.18 10.13	62.14 10.40	62.09 10.67 63	ı
64 63.21 10.01	63.17 10.29	63.12 10.56	63.08 10.84 64	ı
65 64.20 10.17	64.15 10.45	64.11 10.73	64.06 11.01 65	ı
66 65.19 10.32	65.14 10.61	65.09 10.89	65.05 11.18 66	а
67 66.18 10.48	66.13 10.77	66.08 11.06	66.03 11.35 67	Ш
68 67.16 10.64 69 68.15 10.79	67.12 10.93 68.10 11.09	68.05 11.39	67.02 11.52 68 68.00 11.69 69	1
70 69.14 10.95	69.09 11.25	69.04 11.55	68.99 11.85 70	ï
7170.1311.11	70.08 11.41	70.05 11.72	69.97 12.02 71	ı
7271.1111.26	71.06 11.57	71.01 11.88	70.96 12.19 72	а
73 72.10 11.42	72.05 11.73	72.00 12.05	71.95 12.36 73	u
74 73.09 11.58	73.04 11.89	72.99 12.21	72.93 12.53 74	Н
75 74.08 11.73	74.02 12.06	73.97 12.38	73.92 12.70 75	н
76 75.06 11.89	75.01 12.22	74.96 12.65	74.90 12.87 76	Ц
77 76.05 12.05	76.00 12.38	75.94 12.71	75.89 13.04 77	и
78 77.04 12.20	76.99 12.54	76.93 12.87	76.87 13.21 78	Ш
79 78.03 12.36 80 79.02 12.51	77.97 12.70 78.96 12.86	77.92 13.04 78.90 13.20	77.86 13.38 79 78.84 13.55 80	И
	79.95 13 02	Successful processing	1	Ш
81 80.00 12.67 82 80.99 12.83	80.93 13.18	79.89 13.57 80.88 13.53	79.85 13.72 81 80.82 13.89 82	a
83 81.98 12.98	81.92 13.34	81.86 13.70	81.80 14.06 83	u
84 82.97 13.14	82.91 13.50	82.85 13.86	82.79 14.23 84	и
85 83.95 13.30	83.89 13.66	83.83 14.03	83.77 14.39 85	1
86 84.94 13.45	84.88 13.82	84.82 14.19	84.76 14.56 86	H
87 85.93 13.61	85.87 13.98	85.81 14.36	85.74 14.73 87	1
88 86,92 13.77 89 87.90 13.92	86.86 14.15 87.84 14.31	86.79 14.52	86.73 14.90 88 87.71 15.07 89	1
90 88.89 14.08	88.83 14 47	87.78 14.69 88.77 14.85	87.71 15.07 89 88.70 15.24 90	I
91 89.88 14.24	89.82 14.63	89.75 15.02	89.69 15.41 91	
92 90.87 14.39	90.80 14.79	90.74 15.18	90.67 15.58 92	1
93 91 86 14.55	91.79 14.95	91.72 15.35	91.66 15.75 93	H
94 92.84 14.70	92.78 15.11	92.71 15.51	92.64 15.92 94	
95 93 83 14.86	93.76 15.27	93.70 15.68	93.63 16.09 95	
96 94.82 15.02	94.75 15.43	94.68 15.84	94.61 16.26 96	I
97 95.81 15.17	95.74 15.59	95.67 16.01	95.60 16.43 97	
98 96.79 15.33	96.73 15.75	96.66 16.17	96.58 16.60 98 97.57 16.77 99	
99 97.78 15.49	97.71 15.91 98.70 16.07	97.64 16.54 98.63 16.50	97.57 16.77 99 98.56 16.93 100	
The second second	Salar			
Dep. Lat.	Dep. Lat.	Dep. Lat.	Dep. Lat.	1
81 Deg.	803 Deg	801 Deg.	801 Deg.	
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0 10 Deg	101 Deg	101 Deg	103 Deg 0 1
Lat. Dep	Lat. Dep	Lat. Dep	Lat. Dep
1 0.98 0.17	0.98 0.18	0.98 0.18	0.98 0.19 1
	1.97 0.36	1.97 0.36	1.96 0.37 2
2 1.97 0.35	2.95 0.53	2.95 0.55	2.95 0.56 3
4 3.94 0.69	3.94 0.71	3.93 0.73	3.93 0.75 4
5 4.92 0.87	4.92 0.89	4.92 0.91	4.91 0.93 5
6 5.91 1.04	5.90 1.07	5.90 1.09	5.89 1.12 6
7 6.89 1.22	6.89 1.25	6.88 1.28	6.88 1.31 7
8 7.88 1.39	7.87 1.42	7.87 1.46	7.86 1.49 8
9 8.86 1.56	8.86 1.60	8.85 1.64	8.84 1.68 9
10 9.85 1.74	9.84 1.78	9 83 1.82	9.82 1.87 10
11 10.83 1.91	10.82 1.96	10.82 2.00	10.81 2.05 11
12 11.82 2.08 13 12.80 2.26	11 81 2.14	11.80 2.19	11.79 2.24 12 12.77 2.42 13
	12.79 2.31	12.78 2.37	12.77 2.42 13
14 13.79 2.43	13.78 2.49 14.76 2.67	13.77 2.55 14.75 2.73	13.75 2.61 14
15 14.77 2.60			15.72 2.98 16
16 15.76 2.78 17 16.74 2.95	15.74 2.85 16.73 3.03	15.73 2.92 16.72 3.10	16.70 3.17 17
18 17.73 3.13	17.71 3.20	17.70 3.28	17.683.36 18
19 18.71 3.30	18.70 3.38	18.68 3.46	18.67 3.54 19
20 19:70 3.47	19.68 3.56	19.67 3.64	19.65 3.73 20
21 20.68 3.65	20.66 3.74	20.65 3.83	20.63 3.92 21
22 21.67 3.82	21.65 3.91	21.63 4.01	21.61 4.10 22
23 22.65 3.99	22.63 4.09	22.61 4.19	22.60 4.29 23
24 23.64 4.17	23.694.27	23.60 4.37	23.58 4.48 24
25 24.62 4.34	24.60 4.45	24.58 4.56	24.56 4.66 25
26 25.61 4.51	95 50 4.63	25.56 4.74	25.54 4.85 26
27 26.59 4.69	26.57 4.80	26.55 4.92	26.53 5.04 27
28 27 57 4.86	27.55 4.98	27.53 5.10	27.51 5.22 28
29 28 56 5.04	28.54 5.16	28.51 5.28	28.49 5.41 29
30 29 54 5.21	29.52 5.34	29.50 5.47	29.47 5.60 30
31 30.53 5.38	30.51 5.52	30.48 5.65	30.46 5.78 31
32 31.51 5.56	31.49 5.69 32.47 5.87	31.46 5.83 32.45 6.01	31.44 5.97 32 32.42 6.16 33
33 32.50 5.73 34 33.48 5.90	33.46 6.05	33.43 6.20	33.40 6.34 34
35 34.47 6.08	34.44 6.23	34.416.38	34-39 6.53 35
36 35.45 6.25	35.43 6.41	35.40 6.56	35.37 6.71 36
37 36.44 6.42	36 41 6.58	36.58 6.74	36.35 6.90 37
38 37 42 6.60	37,39 6.76	37.36 6.92	37.33 7.09 38
59 38 41 6.77	38.38 6.94	38.35 7.11	38.32 7.27 39
40 39.39 6.95	39.367.12	39.33 7.29	39.30 7.46 40
41 40.38 7.12	40.357.30	40.31 7.47	40.28 7.65 41
42 41.36 7.29	41.33 7.47	41.30 7.65	41.26 7.83 42
43 42.35 7.47	42.317.65	42.287.84	42.25 8.02 43
44 43 .33 7 .64	43.30 7.83	43.26 8.02	43.23 8.21 44
45 44.32 7.81	44.28 8.01	44.25 8.20	44.218.39 45
46 45.30 7.99	45.27 8.19 46 25 8.36	45.238.38	45.19 8.58 46 46.18 8.77 47
47 46.29 8.16 48 47.27 8.34	47.238.54	46.21 8.57	46.18 8.77 47 47.16 8.95 48
49 48.26 8.51	48.22 8.72	48.18.8.93	48.14 9.14 49
5049.248.68	49.20 8.90	49.16.9.11	49.12 9.33 50
Dep Lar	Dep Lat	The second second	Dep Lat
UI .		Dep. Lat	0.1
1 6 80 Deg	79 Deg	79½ Deg	79 Deg 🛱
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5 10 Deg.	101 Deg.	101 Deg	103 Deg   5
Lat. Dep.	Lat. Dep.	Lat, Dep.	Lat. Dep.
51 50.23 8.86	50.19 9 08	50.15 9.29	50.10 9.51 51
52 51.21 9.03	51.17 9.25	51.13 9.48	51.09 9.70 52
53 52.19 9.20	52.15 9.43	52.11 9.66	52.07 9.89 53
54 53.18 9.38	53.14 9.61	53.10 9.84 54.08 10.02	53.05 10.07 54
55 54.16 9.55 56 55.15 9.72	54.12 9.79 55.11 9.96	55.06 10.02	54.03 10.26 55 55.02 10.45 50
57 56.13 9.90	56.09 10.14	56.05 10.39	56.00 10.63 57
58 57.12 10.07	57.07 10.32	57.03 10.57	56.98 10.82 58
59 58.10 10.25	58.06 10.50	58.01 10.77	57.96 11.00 59
60 59.09 10.42	59.04 10.68	59.00 10.93	58.95 11.19 60
61 60.07 10.59 62 61.06 10.77	60.03 10.85	59.98 11.12 60.96 11.30	59.93 11.38 61 60.91 11.56 62
63 62:04 10.94	61.99 11.21	61.95 11.48	61.89 11.75 63
64 63.03 11.11	62.98 11.39	62.93 11.66	62.88 11.94 64
65 64.01 11.29	63.96 11.57	63.91 11.85	63.86 12.12 65
66 65.00 11.46	64.95 11.74	64.89 12.03	64.84 12.31 66
67 65.98 11.63 68 66.97 11.81	65.93 11.92 66.91 12.10	65.88 12.21 66.86 12.39	65.82 12.50 67 66.81 12.68 68
69 67.95 11.81	67 90 12.28	67.84 12.57	67.79 12.87 69
70 68.94 12.16	68.88 12.46	68.83 12.76	68.77 13.06 70
71 69.92 12.33	69.87 12.63	69.81 12.94	69.75 13.24 71
72 70.91 12.50	70.85 12.81	70.79 13.12	70.74 13.43 72
73 71.89 12.68	71.83 12.99	71.78 13.30 72.76 13.49	71.72 13.62 73
74 72.88 12.85 75 73.86 13.02	72.82 13.17 73.80 13.35	72.76 13.49	72.70 13.80 74 73.68 13.99 75
76 74.85 13.20	74.79 13.52	73.74 13.67 74.73 13.85	73.68 13.99 75 74.67 14.18 76
77 75.83 13.87	75.77 13.70	75.71 14.03	75.65 14.36 77
78 76.82 13.54	76.76 13.88	76.69 14.21	76.63 14.55 78
79 77.80 13.72	77.74 14.06	77.68 14.40	77.61 14.74 79
80 78.78 13.99	78.72 14.24	78.66 14.58	78.60 14.92 80
81 79.77 14.07 82 80.75 14.24	79.71 14.41	79.64 14.76 80.63 14.94	79.58 15.11 81 80.56 15.29 82
83 81.74 14.41	80.69 14.59 81.68 14.77	81.61 15.13	80.56 15.29 82 81.54 15.48 83
84 82.72 14.59	82.66 14.95	82.59 15.31	82.53 15.67 84
85 83.71 14.76	83.64 15.13	83.58 15.49	83.51 15.85 85
86 84.69 14.93	84.63 15.30	84.56 15.67 85.54 15.85	84.49 16.04 86 85.47 16.23 87
87 85.68 15.11 88 86.66 15.28	85.61 15.48 86.60 15.66	85.5415.85	85.47 16.23 87 86.46 16.41 88
89 87.65 15.45	87.58 15.84	87.51 16.22	87.44 16.60 89
90 88.63 15.63	88.56 16.01	88.49 16.40	88.42 16.79 90
91 89 62 15.80	89.55 16.19	89.48 16.58	89.40 16.97 91
92 90.60 15.98	90.53 16.37	90.46 16.77	90.3917.16 92
93 91.59 16 15	The last testing to the last of the last o	91.44 16.95	91.37 17.35 93
94 92.57 16.32 95 93.56 16.50	92.50 16.73 93.48 16:0	92.43 17.13	92.35 17.53 94 93.33 17.72 95
96 94 54 16.67		93.41 17.31 94.39 17.49	93.33 17.72 95 94.32 17.91 96
97 95.53 16.84	94.47 17.08 95.45 17.26	95.38 17.68	95.30 18.09 97
98 96.51 17.02	96.44 17.44	96.36 17.86	96.28 18.28 98
99 97.50 17.19		97.34 18.04	97.26 18.47 99
100 98.48 17.36		The second second	98.25 18.65 100
Dep. Lat.	Dep. Lat.	Dep. Lat.	Dep. Lat.
0 80 Deg.	793 Deg.	79½ Deg.	791 Deg.
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U 11 Deg.	111 Deg	111 Deg	113 Deg. 0	п
Lat Dep	Lat. Dep	Lat. Dep	Lat. Dep. #	и
1 0.98 0.19	0.98 0.20	0.98 0.20	0.98 0.20 1	ı,
			1.96 0.41 2	п
2 1.96 0.38 3 2.94 0.57 4 3.93 0.76 5 4.91 0.95 6 5.89 1.14 7 6.87 1.34 8 7.85 1.53 9 8.83 1.72	1.96 0.39 2.94 0.59	1.96 0.40 2.94 0.60	2.94 0.61 3	
4 3.93 0.76	3.920.78	3.92 0.80	3.92 0.82 4	ı
5 4.91 0.95	3.92 0.78 4.90 0.98	4.901.00	4.90 1.02 5	ı.
6 5.89 1.14	5.88 1.17	5.88 1.20	5.87 1.22 6	и
7 6.87 1.34	6.87 1.37	6.86 1.40	6.85 1.43 7	п
8 7.85 1.53	7.85 1.56	7.84 1.59	7.83 1.63 8	п
9 8.83 1.72	8.83 1.76	8.82 1.79	8.81 1.83 9	п
10 9.82 1.91	9.81 1.95	9.80 1.99	9.79 2.04 10	и
11 10,80 2.10	10.79 2.15	10.78 2.19	10.77 2.24 17	ı
12 11.78 2.29	11.77 2.34		11.75 2.44 12	Ц
13 12.76 2.48	11.77 2.34 12.75 2.54	11.76 2.39 12.74 2.59	12.73 2.65 13	п
14 13,74 2,67	13.73 2.73	13.72 2.79	13.71 2.85 14	н
15 14.72 2.86	14.71 2.93	14.70 2.99	14.69 3.06 15	1
16 15.71 3.05	15.69 3.12	15.68 3.19	15.66 3.26 16	ł
17 16.69 3.24	16.67 3.32	16.66 3.39	16.64 3.46 17	1
18 17.67 3.43	17.65 3.51	17.64 3.59	17.62 3.66 18	н
19 18.65 3.63	18.63 3.71	18.62 3.79	18.60 3.87 19	H
20 19.65 3.82	19.62 3 90	19.60 3.99	19.58 4.07 20	П
21 20.61 4.01	20.60 4.10	20.58 4.19	20.56 4.28 21	п
22 21.60 4.20	21.58 4.29	21:56 4:39	21.54 4.48 22	н
23 22-58 4-39	22 56 4.49	22.54 4.59	22.52 4.68 23	П
24 23.56 4.58	23.54 4.68	23.52 4.78	23.50 4.89 24	н
25 24.54 4.77	24.52 4.88	24.50 4.98	24.48 5.09 25	ı
26 25.52 4.96	25.50 5.07	25.48 5.18	25.46 5.30 26	ı
27 26.50 5.15	26.48 5.27	26.46 5.38	26.43 5.50 27	П
28 27 49 5.34	27.46 5.46	27.44 5.58	27.41 5.70 28	П
29 28 47 5.53	28.44 5.66	23.42 5.78	28.39 5.91 29	П
30 29.45 5.72	29.42 5.85	29.40 5.98	29.37 6.11 30	ı
31 30.43 5.92	30.4 6.05	30.38 6.18	30-35 6-31 31	N
3231.416.11	31.39 6.24	31.36 6.38	31.33 6.52 32	п
33 32.39 6.30	32.37 6.44	32.34 6.58	32.51 6.72 33	А
34 33 38 6,49	33,35 6,63	33.32 6.78	33.29 6.92 34	н
35 34.36 6.68	34.33 6.83	34 30 6.98	34.27 7.13 35	ı
36 35 34 6.87	35.31 7.02	35.28 7.18	35.25 7.33 36	ı
37 36.32 7.06	36.297 22 37.27 7.41	36.26 7.38	36.22 7.53 37 37.20 7.74 38	
38 37 30 7.25	28 25 7 61	37.24 7.58		
3938.287.44	38.25 7 61 39.23 7.80	38.22 7.78 39.20 7.97	38.18 7.94 39 39.16 8.15 40	
40 39.27 7.63	10.00	Committee of the last of the l	The second lines in which the second	1
41 40.25 7.82	40.21 8.00	40 18 8.17	40.14 8.35 41	1
42 41.23 8.01	41.19 8.19	41.16 8.37	41.12 8.55 42	
43 42.21 8.20 44 43.19 8.40	42.17 8.39	42.14 8.57	42.10 8.76 43 43.08 8.96 44	
45 44 17 9 50	43.15 8,58 44-14 8.78	43.128.77 42.108.97	THE RESIDENCE OF THE PARTY OF T	
45 44.17 8.59 46 45.15 8.78	45.12 8.78	45.08 9.17	Sales help throughout the	
47 46.14 8.97	46.10 9.17	46.06 9.37	45.04 9.37 46 46.02 9.57 47	
48 47.12 9.16	47.08 9.36	47.04 9.57	47.99 9.78 48	1
49 48.10 9.35	48.06 9.56	48.02 9.77	48.97 9.98 49	I
50 49.08 9.54	49.04 9.75	49.00 9.97	49.95 10.18 50	H
THE R. LEWIS CO., LANSING, MICHAEL, MIC	Dep. Lat	Dep. Lat	Maria Committee of the	
Dep. Lat			The second secon	11
5 79 Deg.	783 Deg	781 Deg	781 Deg. 5	
¢		No. of Street,	The same of	9

7.0			
5 11 Deg.	111 Deg.	111 Deg.	113 Deg. 5
Lat. Dep.	Lat.   Dep.	Lat. Dep.	Lat Dep. 3
51 50.06 9.73	50.02 9.95	49.98 10.17	49.93 10.39 51
52 51.04 9.92	51.00 10.14	50.96 10.37	50.91 10.59 52
53 52.03 10.11	51.98 10.34	51.94 10.57	51.89 10.79 53
54 53.01 10.30	52.96 10.53	52.92 10.77	52.87 11.00 54
55 53.99 10.49 56 54.97 10.69	53.94 10.73 54.92 10.93	53.90 10.97 54.88 11.16	53.85 11.20 55 54.83 11.40 56
	55.90 11.12	55.86 11.36	55.81 11.61 57
57 55.95 10.88 58 56.93 11.07	56.89 11.32	56.84 11.56	56.78 11.81 58
59 57.92 11.26	57.87 11.51	57.82 11.76	57.76 12.01 59
60 58.90 11.45	58.85 11.71	58.80 11.96	58 74 12.22 60
61 59.88 11.64	59.83 11.90	59.78 12.16	59.72 12.42 61
62 60.86 11.83	60.81 12.10	60.76 12.36	60.70 12.63 62
63 61.84 12.02 64 62.82 12.21	61.79 12.29 62.77 12.49	61.74 12.56 62.72 12.76	61.68 12.83 63 62.66 13.03 64
65 63.81 12.40	63.75 12.68	63.70 12.96	63.64 13.24 65
66 64.79 12.59	64.73 12.88	64.68 15.16	64.62 13.44 66
67 65.77 12.78 68 66.75 12.98	65.71 13.07	65.66 13.36 66.63 13.56	65.60 13.64 67
68 66.75 12.98	66.69 13.27	66.63 13.56	66.58 13.85 68
69 67.73 13.17	67.67 13:46	67.61 13.76	67.55 14.05 69
70 68.71 13.36	68.66 13.66	68.59 13.96	68.53 14.25 70
71 69.70 13.55 72 70.68 13.74	69.64 13.85 70.62 14.05	69.57 14.16 70.55 14.35	69.51 14.46 71
73 71.66 13.93	71.60 14.24	71.53 14.55	70.49 14.66 72 71.47 14.87 73
74 72.64 14.12	72.58 14.44	72.51 14.75	72.45 15.07 74
75 73.62 14.31	73.56 14.63	73.49 14.95	73.43 15.27 75
76 74.60 14.50	74.54 14.83	74.47 15.15	74.41 15.48 76
77 75.59 14.69 78 76.57 14.88	75.52 15.02	75.45 15.35	75.39 15.68 77
78 76.57 14.88	76.50 15.22	76.43 15.55	76.37 15.88 78
79 77.55 15.07 80 78.53 15.26	77.48 15.41	77.41 15.75	77.34 16.09 79 78.32 16.29 80
81 79.51 15.46	78.46 15.61	78.39 15.95	
82 80.49 15.65	79.44 15.80 80.42 16.00	80.35 16.35	79.30 16.49 81 80.28 16.70 82
8381.4815.84		81.33 16.55	81.26 16.90 83
84 82.46 16.03	81.41 16.19 82.39 16.39	82.31 16.75	82.24 17.11 84
85 83.44 16.22	83.37 16.58	83.29 16.95	83.22 17.31 85
86 84.42 16.41	84.35 16.78	84.27 17.15	84.20 17.51 86
87 85.40 16.60 88 86 38 16.79	85.33 16.97 86.31 17.17	85.25 17.35 86.23 17.54	85.18 17.72 87 86.16 17.92 88
89 87.36 16.98	87 90 17 36	87.21 17.74	87.14 18.12 89
90 88.35 17.17	87.29 17.36 88.27 17.56	88.19 17.94	88.11 18.33 90
91 89.33 17.36	89.25 17.75	89.17 18.14	89.09 18.53 91
92 90.31 17.55	90.23 17.95	90.15 18.34	90.07 18.74 92
98 91.29 17.75	91.21 18.14	91.13 18:54	91.05 18.94 93
94 92.27 17.94	92.19 18.34	92.11 18.74	92.03 19.14 94
95 93.25 18.13	93.17 18.53	93.09 18.94	93.01 19.35 95
96 94.24 18.32 97 95.22 18.51	94.16 18.73	94.07 19.14 95.05 19.34	93.99 19.55 96 94.97 19.75 97
98 96.20 18,70	95.14 18.92 96.12 19.12	96.04 19.54	95.95 19.96 98
99 97.18 18.89	97.10 1 .31	97.01 19.74	96.93 20.16 99
100 98 16 19.08	98.08 19.51	98.99 19.94	97.90 20.36 100
Dep. Lat.	Dep. Lat.	Dep. Lat.	Dep. Lat. 7
0 79 Deg	783 Dec.	781 Deg.	781 Deg. 6
	THE REAL PROPERTY.	2 6	***************************************
			- A

*			
1 Deg.	121 Deg.	121 Deg.	123 Deg. 0
Lat. Dep.	Lat. Dep.	Lat. Dep.	Lat. Dep. 3
1 0.98 0.21	0.98 0.21	0.98 0.22	0.98 0.22 1 1.95 0.44 2 2.93 0.66 3
2 1.96 0.42 3 2.93 0.62	1.95 0.42 2.93 0.64	1.95 0.43 2.93 0.65	1.95 0.44 2 2.93 0.66 3
3 2.93 0.62 4 3.91 0.83	3.91 0.85	2.93 0.65 3.91 0.87	2.93 0.66 3 3.90 0.88 4
	4.89 1.06	4.88 1.08	
5 4.89 1.04 6 5.87 1.25	5.86 1.27	5.86 1.30	5.85 1.32 6
7 6.85 1.46 8 7.83 1.66	6.84 1.49	6.83 1.52	
8 7.83 1.66 9 8.80 1.87	7.82 1.70 8.80 1.91	7·81 1.73 8.79 1.95	7.80 1.77 8 8.78 1.99 9
10 9.78 2.08	9.77 2,12	9.76 2.16	9.75 2.21 10
11 10.76 2.29	10.75 2.33	10.74 2.38	10.73 2.43 11
1211.74 2.49	11.73 2.55	11.72 2.60	11.70 2.65 12
13 12.79 2.70	12.70 2.76	12.69 2.81	12.68 2.87 13
14 13.69 2.91	13.68 2.97	13.67 3.03	13.65 3.09 14 14.63 3.31 15
15 14.67 3.12 16 15:65 3.33	14.66 3.18 15.64 3.39	14.64 3.25 15.62 3.46	14.63 3.31 15 15.61 3.53 16
17 16.63 3.53	16.61 3.61	16.60 3.68	16.58 3.75 17
18 17.61 3.74	17.59 3.82	17.57 3.90	17.56 3.97 18
19 18.58 3.95	18.57 4.03	18,55 4.11	18.53 4.19 19
20 19.56 4.16	19.54 4.24	19.53 4.33	19.51 4.41 20
21 20.54 4.37	20.52 4.46	20.50 4.55	20.48 4.63 21 21.46 4.86 22
22 21.52 4.57 23 22.50 4.78	21,50 4.67 22,48 4.88	21.48 4.76 22.45 4.98	21.46 4.86 22 22.43 5.08 23
23 22.50 4.78 24 23.48 4.99	23.45 5.09	23.43 5.19	23.41 5.30 24
25 24.45 5.20	24.43 5.30	24.41 5.41	24.38 5.52 25
26 25.43 5.41	25.41 5.52	25.38 5.63	25.36 5.74 26
27 26.41 5.61 28 27.39 5.82	26.39 5.73	26.36 5.84	26.33 5.96 27 27.31 6.18 28
28 27.39 5.82 29 28.37 6.03	27.36 5.94 28.34 6.15	27.34 6.06 28.51 6.28	27.51 6.18 28 28.28 6.40 29
30 29.34 6.24	29.32 6.37	29.29 6.49	29.26 6.62 30
31 30.32 6.45	30.29 6.58	30.27 6.71	30.24 6.84 31
32 31.30 6.65	31.27 6.79	31.24 6.93	31.21 7.06 32
3332.28 6.86	32.25 7.00	32.22 7.14	32.19 7.28 33
34 33.26 7.07 35 34.24 7.28	33.23 7.21 34.20 7.43	33.19 7.36 34.17 7.58	33.16 7.50 34 34.14 7.72 35
35 34.24 7.28 36 35.21 7.48	34.20 7.43 35.18 7.64	35.15 7.79	34.14 7.72 35 35.11 7.95 36
37 36.19 7.69	36.16 7.85	36.12 8.01	36.09 8.17 37
38 37.17 7.90	37.13 8.06	37 10 8.22	37.06 8.39 38
39 38.15 8.11	38.11 8.27	38.08 8.44	38.04 8.61 39
40 39.13 8.32	39.09 8.49	39.05 8.66	39.01 8.83 40
41 40.10 8.52 42 41.08 8.73	40.07 8.70 41.04 8.91	40.03 8.87 41.00 9.09	39.99 9.05 41 40.96 9.27 42
43 42.06 8.94	41.04 8.91 42.02 9.12	41.98 9.31	41.94 9.49 43
4443.04 9.15	43.00 9.34	42,96 9.52	42.92 9.71 44
45 44.02 9.36	43.98 9.55	43.93 9.74	43.89 9.93 45
46 44,99 9.56	44.95 9.76	44.91 9.96	44.87 10.15 46 45.84 10.37 47
47 45.97 9.77 48 46.95 9.98	45.93 9.97 46.91 10.18	45.89 10.17 46.86 10.39	45.84 10.37 47 46.82 10.59 48
49 47.93 10.19	47.88 10.40	47.24 10.61	47.79 10.81 49
50 48.91 10.40	48.86 10.61	48.81 10.82	48.77 11.03 50
Dep. Lat.	Dep. Lat.	Dep. Lat.	
78 Deg.	773 Deg.	771 Deg.	Dep. Lat 2
20	Court reference on the		

		Character III	
5 12 Deg.	121 Deg.	1 121 Deg.	123 Deg. 5
Lat. Dep.	Lat.   Dep.	Lat. Dep.	Lat Dep. 4
		49.79 11.04	
	49.84 10.82	50.77 11.25	49.74 11.26 51
52 50.86 10.81 53 51.84 11.02	50.82 11.03 51.79 11.25	51.74 11.47	50.72 11.48 52 51.69 11.70 53
54 52.82 11.23	52.77 11.46	52.72 11.69	51.69 11.70 53 52.67 11.92 54
55 53.80 11.44	53.75 11.67	53.70 11.90	53.64 12.14 55
56 54.78 11.64	54.72 11.88	54.67 12.12	54.62 12.36 56
57 55.75 11.85	55.70 12.09	55.65 12.34	55.59 12.58 57
58 56.73 12.06	56.68 12.31	56.63 12.55	56.57 12.80 58
59 57.71 12.27	57.66 12.52	57.60 12.77	57.55 13.02 59
60 58.69 12.47	58.63 12.73	57.60 12.77 58.58 12.99	58.52 13.24 60
61 59.67 12.68	59.61 12.94	59.55 13.20	59.50 18.46 61
62 60.65 12.89	60.59 13.16	60.53 13.42	60.47 13.68 62
63 61.62 13.10	61.57 13:37	61.51 13.64	61.45 13.90 63
64 62.60 13.31	62.54 13.58	62.48 15.85	62.42 14.12 64
65 63.58 13.51	63.52 13.79	63.46 14.07	63.40 14.35 65
66 64.56 13.72	64.50 14.00	64.44 14.29	64.37 14.57 66
67 65.54 13.93	65.47 14.22	65.41 14.50	65.35 14.79 67
68 66.51 14.14	66,45 14.43	66.39 14.72	66.32 15.01 68
69 67.49 14.35 70 68.47 14.55	67.43 14.64	67.36 14.93	67.30 15.23 69
	68.41 14.85	68.34 15.15	68.27 15.45 70
71 69.45 14.76	69.38 15.06	69.32 15.37	69.25 15.67 71
72 70.43 14.97	70.36 15.28	70.29 15.58	70.22 15.89 72
73 71.40 15.18	71.34 15.49	71.27 15.80	71.20 16.11 73
74 72,38 15.39	72.32 15.70	72.25 16.02	72.18 16.33 74
75 73.36 15.59	73.29 15.91	73.22 16.23	73.15 16.55 75
76 74.34 15.80	74.27 16.13	74.20 16.45	74.13 16.77 76
77 75.32 16.01	75.25 16.34	75.17 16.67	75.10 16.99 77
78 76.30 16.22 79 77.27 16.43	76.22 16.55	76.15 16.88 77.13 17.10	76.08 17.21 78 77.05 17.44 79
80 78.25 16.63	77.20 16.76 78.18 16.97	78.10 17.32	77.05 17.44 79 78.03 17.66 80
81 79.23 16.84		70.10 17.32	
82 80.21 17.05	79.16 17.19	79.08 17.53	79.00 17.88 81 79.98 18.10 82
83 81.19 17.26	80.13 17.40 81.11 17:61	80.06 17.75 81.03 17.96	79.98 18.10 82 80.95 18.32 83
84 82.16 17.46	82.09 17.82	82.01 18.18	81.93 18.54 84
85 83.14 17.67	83.06 18.04	82.99 18.40	82.90 18.76 85
86 84.12 17.88	84.04 18.25	83.96 18.61	83.88 18.98 86
87 85.10 18.09	85.02 18.46	84.94 18.83	84.85 19.20 87
88 86.08 18.30		85.91 19.05	85.83 19.42 88
89 87.06 18.50	86.97 18.88	86,89 19.26	86.81 19.64 89
90 88.03 18.71	87.95 19.10	87.87 19.48	87.78 19.86 90
91 89.01 18.92	88.93 19.31	88.84 19.70	88.76 20.08 91
92 89.99 19.13	89.91 19.52	89.82 19.91	89.73 20.30 92
93 90.97 19.34	90.88 19.73	90.80 20.13	90.71 20.52 93
94 91.95 19.54	91.86 19.94	91.77 20.35 92.75 20.56	91.68 20.75 94
95 92.92 19.75	92.84 20.16	92.75 20.56	92.66 20.97 95
96 93.90 19.96	93.81 20.37	93.72 20.78	93.63 21.19 96
97 94.88 20.17	94.79 20.58	94.70 20.99 95.68 21.21	94.61 21.41 97
98 95.86 20.38	95.77 20.79	95.68 21.21	95.58 21.63 98
99 96.84 20.58	96.75,21.01	96.65 21.43	96.56 21.85 99
100 97.81 20.79	97.72 21.22	97.63 21.64	97.53 22.07 100
Dep. Lat.	Dep. Lat.	Dep. Lat.	Dep. Lat. #
78 Deg.	775 Deg.	771 Deg.	77 Deg. 0
		0 11	

<u> </u>	0-000		
1 5 Deg.	131 Deg.	131 Deg.	133 Deg   D
Lat. Dep.	Lat. Dep.	Lat. Dep.	Lat. Dep. S
1 0.97 0.23	0.97 0.23	0.97 0.23	0.97 0.24 1
2 1.95 0.45 3 2.92 0.67	1.95 0.46	1.95 0.47	1.94 0.48 2 2.91 0.71 3
	2.92 0.69 3.89 0.92	2.92 0.70	2.91 0.71 3 3.89 0.95 4
	4.87 1.15	4.86 1.17	
5 4.87 1.12 6 5.85 1.35	5.84 1.38	5.83 1.40	4.86 1.19 5 5.83 1.43 6
7 6.82 1.57	6.81 1.60	6.81 1.63	6.80 1.66 7
8 7.80 1.80	7.79 1.83	7-78 1.87	7.77 1.90 8
9 8.77 2.02	8.76 2.06	8.75 2.10	8.74 2.14 9 9.71 2.38 10
10 9.74 2.25	9.73 2.29	9.72 2.33	District Division in which
11 10.72 2.47	10.71 2.52	10.70 2.57	10.68 2.61 11
12 11.69 2.70 13 12.67 2.92	11.68 2.75 12.65 2.98	11.67 2.80 12.64 3.03	11.66 2.85 12 12.63 3.09 13
14 13.64 3.15	13.63 3.21	13.61 3.27	13.60 3.33 14
15 14.62 3.37	14.60 3.44	14.59 3.50	14.57 3.57 15
16 15.59 3.60	15.57 3.67	15.56 3.74	15.54 3.80 16
17 16.56 3.82	16.55 3.90	16.53 3.97	16.51 4.04 17
1817.54 4.05	17.52 4.13	17.50 4.20	17.48 4.28 18
19 18.51 4.27 20 19.49 4.50	18.49 4.35 19.47 4.58	18.48 4.44 19.45 4.67	18.46 4.52 19 19.43 4.75 20
21 20.46 4.72	20.44 4.81	20.42 4.90	20.40 4.99 21
22 21.44 4.95	21.41 5.04	21.39 5.14	21.37 5.23 22
23 22.41 5.17	22.39 5.27	22.36 5.37	22.34 5.47 23
24 23.38 5.40	23.36 5.50	23.34 5.60	23.31 5.70 24
25 24.36 5.62	24.33 5.73	24.31 5.84	24.28 5.94 25
26 25.33 5.85	25.31 5.96	25.28 6.07	25.25 6.18 26
27 26.31 6.07 28 27.28 6.30	26.28 6.19	26.25 6.30	26.25 6.42 27 27.20 6.66 28
28 27.28 6.30 29 28.26 6.52	27.25 6.42 28.23 6.65	27.23 6.54 28.20 6.77	27.20 6.66 28 28.17 6.89 29
30 29,23 6.75	29.20 6.88	28.20 6.77 29·17 7.00	29.14 7.13 30
31 30.21 6.97	30.17 7.11	30.14 7.24	30.11 7.37 31
32 31.18 7.20	31.15 7.33	31.12 7.47	31.08 7.61 32
3332.15 7.42	32.12 7.56	32.09 7.70	32.05 7.84 33
34 33.13 7.65	33.09 7.79	33.06 7.94	33.03 8.08 34
35 34.10 7.87	34.07 8.02	34.03 8.17	34.00 8.32 35
3635.08 8.10 3736.05 8.32	35.04 8.25 36.02 8.48	35.01 8.40 35.98 8.64	34.97 8,56 36 35.94 8.79 37
38 37-03 8.55	36.99 8.71	36.95 8.87	36.91 9.03 38
39 38.00 8.77	37.96 8.94	37.92 9.10	37.88 9.27 39
40 38.97 9.00	38.94 9.17	38.89 9.34	38.85 9.51 40
41 39.95 9.22	39.91 9.40	39.87 9.57	39.83 9.75 41
42 40.93 9.45	40.88 9.63	40.84 9.80	40.80 9.98 42
43 41.90 9.67	41.86 9.86	41.81 10.04	41.77 10.22 43
4442.87 9.90	42.83 10.08	42.78 10.27	42.74 10.46 44 43.71 10.70 45
45 43.85 10.12 46 44.82 10.35	43.80 10.31 44.78 10.54	43.76 10.51	43.71 10.70 45
47 45.80 10.57	45.75 10.77	44.73 10.74 45.70 10.97	45.65 11.17 47
48 46.77 10.80	46.72 11.00	46 67 11.21	46.62 [1.41 48
49 47.74 11.02	47.70 11.23	47.65 11.44	47.60 11.65 49
50 48.72 11.25	48.67 11.46	48.62 11.67	48.57 11.88 50
Dep. Lat.	Dep. Lat.	Dep. Lat.	Dep. Lat.
77 Deg.	763 Deg.	761 Deg.	76 Deg. 5
C=		Marin Marin St.	The state of the s

0 13 Deg.	131 Deg.	131 Deg.	1 123 Done H
H-1			133 Deg. C
Lat, Dep.	Lat. Dep.	Lat Dep	Lat. Dep. 5
51 49.69 11.47	49.64 11.69	49.59 11.91	49.54 12.12 51
52 50.67 11.70	50.62 11.92	50.56 12.14	50.51 12.36 52
53 51.64 11.92	51.59 12.15	51.54 12.37	51.48 12.60 53
54 52.62 12.15	52.56 12.38	52.51 12.61	52.45 12.84 54 53.42 13.07 55
55 53.59 12.37 56 54.56 12.60	53.54 12.61 54.51 12.84	53.48 12.84 54.45 13.07	Transferror Registers Strategy
57 55.54 12.82	55.48 13.06	55.43 13.31	54.40 13.31 56 55.37 13.55 57
58 56.51 13.05	56.46 13.29	56.40 13.54	56.34 13.79 58
59 57.49 13.27	57.43 13.52	57.37 13.77	57.31 14.02 59
60 58.47 13.50	58.40 13.75	58.34 14.01	58.28 14.26 60
61 59.44 13.72	59.58 13.98	59.31 14.24	59.25 14.50 61
62 60.41 13.95	60.35 14.21	60.29 14.47	60.22 14.74 62
63 61.39 14.17	61.32 14.44	61.26 14.71	61.19 14.97 63
64 62.36 14.40	62.30 14.67	62.23 14.94	62.17 15.21 64
65 63.33 14.62	63.27 14.90	63.20 15.17	63.14 15.45 65
66 64.31 14.85	64.24 15.13	64.18 15.41	64.11 15.69 66
67 65.28 15.07	65.22 15.36	65.15 15.64	65.08 15.93 67
68 66.26 15.30	66.19 15.59	66.12 15.87	66.05 16.16 68
69 67.23 15.52	67.16 15.81	67.09 16.11	67.02 16.40 69
70 68.21 15.75	68.14 16.04	68.07 16.34	67.99 16.64 70
71 69.18 15.97	69.11 16.27	69.04 16.57	68.97 16.88 71
72 70.15 16.20	70.08 16.50	70.01 16.81	69.94 17.11 72
73 71.13 16.42	71.06 16.73	70.98 17.04	70.91 17.35 73
74 72.10 16.65	72.03 16.96	71.96 17.28	71.88 17.59 74
75 73.08 16.87 76 74.05 17.10	73.00 17.19	72.93 17.50	72.85 17.83 75
70 74.05 17.10	73.98 17.42	73.90 17.74	73.82 18.06 76 74.79 18.30 77
77 75.03 17.32 78 76.00 17.55	74.95 17.65 75.92 17.88	74.87 17.98 75.84 18.21	74.79 18.30 77 75.76 18.54 78
79 76.98 17.77	76.90 18.11	76.82 18.44	76.74 18.78 79
80 77.95 18.00	77.87 18.34	77.79 18.68	77.71 19.01 80
8178.92 18.22	78.84 18.57	78.76 18.91	78.68 19.25 81
8279.90 18.45	79.82 18.79	79.73 19.14	79.65 19.49 82
83 80.87 18.67	80.79 19.02	80.71 19.38	80.62 19.73 83
84 81.85 18.90	81.76 19.25	81.68 19.61	81.59 19.97 84
85 82.82 19.12	82.74 19.48	82.65 19.84	82.56 20.20 85
86 83.80 19.35	83.71 19.71	83.62 20.08	83.54 20.44 86
87 84.77 19.57	84.68 19.94	84.60/90/31	84.51 20.68 87
88 85.74 19.80	85.66 20.17	85.57 20.54 86.54 20.78	85.48 20.92 88
89 86 72 20.02	86,63 20.40	86.54 20.78	86.45 21.15 89
90 87.69 20.25	87.60 20.63	87.51 21.01	87.42 21.39 90
91 88.67 20.47	88.58 20.86	88.49 21.24	88.39 21.63 91
92 89.64 20.70	89.55 21.09	89.46 21.48	89.36 21.87 92 90.33 22.10 93 91.31 22.34 94 92.28 22.58 95
93 90.62 20.92	90.52 21.32	90.43 21.71	90.33 22.10 93
94 91.59 21.15	91.50 21.54	91.40 21.94	91.31 22.34 94
95 92.57 21.37	92.47 21.77	92.38 22.18	92.28 22.58 95 93.25 22.82 96
96 98.54 21.60	93.44 22.00	04 39 99 64	93.25 22.82 96 94.22 23.06 97
97 94.51 21.82 98 95.49 22.05	94.42 22.23 95.39 22.46	93.35 22.41 94.32 22.64 95.29 22.88	94.22 23.06 97 95.19 23.29 98
99 96.46 22.27	96.36 22.40	96.26 23.11	96.16 23.53 99
100 97.44 22.50	97.34 22.92	97.24 23.34	97.13 23.77 100
Dep. Lat.	Dep. Lat.	Dep. Lat.	Dep. Lat.
	Sepi Lan.	Ech. Dat.	
5 77 Deg.	663 Deg.	761 Deg.	761 Deg. O

Lat.   Dep.   Lat.   Dep.   Lat.   Dep.   Lat.   Dep.   Dep.   Lat.   Dep.	G. =			
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10   9.70   2.42   9.69   2.46   9.68   2.50   9.67   2.55   10				A SOCIETY OF THE PARTY OF THE P
Total   Tota				011 0 2120
12   11.64   2.90   11.63   2.95   11.62   3.00   11.60   3.06   12   13.12.61   3.15   12.60   3.20   12.59   3.25   12.57   3.51   13   14.13.58   3.59   13.57   3.45   13.53   3.51   13.54   3.56   14.51   3.69   14.52   3.76   14.51   3.82   15   16.15.52   3.87   15.51   3.94   15.49   4.01   15.47   4.07   16   17.16.50   4.11   16.48   4.18   16.46   4.26   16.44   4.33   17   18.17.47   4.35   17.45   4.43   17.43   4.51   17.41   4.58   18   19   18.44   4.60   18.42   4.68   18.39   4.76   18.37   4.84   19   19.44   4.64   19.38   4.92   19.36   5.01   19.34   5.09   20   21   20.38   5.08   20.35   5.17   20.33   5.26   20.31   5.35   21   22   21.35   5.32   21.32   5.42   21.30   5.51   21.28   5.60   22   23.22   5.56   22.29   5.66   22.27   5.76   22.24   5.86   23   22.32   5.56   22.29   5.66   23.27   5.76   22.24   5.86   23   24   23.29   5.81   23.26   5.91   23.24   6.01   23.21   6.11   24   25   24.26   6.05   24.23   6.15   24.20   6.26   24.18   6.37   25   26   25.23   6.29   25.20   6.40   25.17   6.51   25.14   6.62   26   27   26.20   6.53   26.17   6.65   26.14   6.76   28.04   7.38   29   28.14   7.02   28.11   7.14   28.09   7.26   28.04   7.38   29   28.14   7.02   28.11   7.14   28.09   7.26   28.04   7.38   29   28.14   7.02   28.11   7.14   28.09   7.26   28.04   7.38   29   28.14   7.02   28.11   7.14   28.09   7.26   28.04   7.38   29   28.14   7.02   28.13   31.95   8.26   31.93   8.15   32.31   35.58   8.91   35.33   32.02   7.98   31.98   8.12   31.95   8.26   31.91   3.48   3.95   3.586   9.11   35.82   9.26   35.78   9.42   37.80   9.60   37.76   9.76   38.41   9.17   36   37.80   9.60   37.76   9.76   37.71   9.93   39   37.84   9.44   37.80   9.60   37.76   9.76   37.71   9.93   39   37.84   9.44   37.80   9.60   37.76   9.76   37.71   9.93   39   37.84   9.44   37.80   9.60   37.76   9.76   37.71   9.93   39   37.84   9.44   37.80   9.60   37.76   9.76   37.71   9.93   39   37.84   9.44   37.80   9.60   37.76   9.76   37.71   9.93   39   37.84   9.44   37.80	Charles to consume a second	The second second		Market Landson Co.
1312.61 3.15				
14   13.58   3.59   13.57   3.45   13.53   3.51   13.54   3.56   14   15.14.55   3.63   14.54   3.69   14.52   3.76   14.51   3.82   15   17.16   15.52   3.87   15.51   3.94   15.49   4.01   15.47   4.07   16   17.16.50   4.11   16.48   4.18   16.46   4.26   16.44   4.33   17   18   17.47   4.35   17.45   4.43   17.43   4.51   17.41   4.58   18   19.18.44   4.60   18.42   4.68   18.39   4.76   18.37   4.84   19   38   4.92   19.36   5.01   19.34   5.09   20   19.41   4.84   19.38   4.92   19.36   5.01   19.34   5.09   20   22.13.5   5.32   21.32   5.42   21.30   5.51   21.28   5.60   22   23   22.32   5.56   22.29   5.66   22.27   5.76   22.24   5.86   23   24.23.29   5.81   23.26   5.91   23.24   6.01   23.21   6.11   24   25   24.26   6.05   24.23   6.15   24.20   6.26   24.18   6.37   25   26   25.23   6.29   25.20   6.40   25.17   6.51   25.14   6.62   26   27   26.20   6.53   26.17   6.65   26.14   6.76   26.11   6.87   27   29.28.14   7.02   28.11   7.14   28.08   7.26   28.04   7.38   29   30   29.11   7.26   29.08   7.38   29.04   7.51   31   30.08   7.50   30.05   7.63   30.01   7.76   29.98   7.89   31   33.32.02   7.98   31.98   8.12   31.95   8.26   31.91   8.40   33   33.99   8.37   33.92   8.51   32.88   8.66   34.85   9.01   34.81   9.17   36   36.87   9.19   36.83   9.35   36.79   9.51   36.75   9.67   38   36.87   9.19   36.83   9.35   36.79   9.51   36.75   9.67   38   39   37.84   9.44   37.80   9.60   37.76   9.76   37.71   9.93   39   37.84   9.44   37.80   9.60   37.76   9.76   37.71   9.93   39   37.84   9.44   37.80   9.60   37.76   9.76   37.71   9.93   39   37.84   9.44   37.80   9.60   37.76   9.76   37.71   9.93   39   37.84   9.44   37.80   9.60   37.76   9.76   37.71   9.93   39   37.84   9.44   37.80   9.60   37.76   9.76   37.71   9.93   39   37.84   9.44   37.80   9.60   37.76   9.76   37.71   9.93   39   37.84   9.44   37.80   9.60   37.76   9.76   37.71   9.93   39   37.84   9.44   37.80   9.60   37.76   9.76   37.71   9.93   39   37.84   9.44   37.80   9.60   37.76   9.76		DOUGHARD HEALTH AND THE REAL PROPERTY.		PROPERTY BASES OF THE PARTY.
15   14.55   3.63   14.54   3.69   14.52   3.76   14.51   3.82   15   16   15.52   3.87   15.51   3.94   15.49   4.01   15.47   4.07   16   17   16.50   4.11   16.48   4.18   16.46   4.26   16.44   4.33   17   1817.47   4.35   17.45   4.43   17.43   4.51   17.41   4.58   18   19   18.44   4.60   18.42   4.68   18.39   4.76   18.37   4.84   19   20   19.41   4.84   19.38   4.92   19.36   5.01   19.34   5.09   20   20   21   20.38   5.08   20.33   5.17   20.33   5.26   20.31   5.35   21   22   21.35   5.32   21.32   5.42   21.30   5.51   21.28   5.60   22   23   22.32   5.56   22.29   5.66   22.27   5.76   22.24   5.86   23   24   23.29   5.81   23.26   5.91   23.24   6.01   23.21   6.11   24   25   24.26   6.65   24.23   6.15   24.20   6.26   24.18   6.37   25   26   25.23   6.29   25.20   6.40   25.17   6.51   25.14   6.62   26   27   26.20   6.53   26.17   6.65   26.14   6.76   26.11   6.87   27   29.28.14   7.02   28.11   7.14   28.08   7.26   28.04   7.38   29   29.11   7.26   29.08   7.38   29.04   7.51   29.08   7.38   29.04   7.51   29.08   7.38   29.04   7.51   29.01   7.64   30   31.00   7.76   30.05   7.63   30.01   7.76   30.08   7.50   30.95   7.63   30.01   7.76   30.98   8.01   30.98   8.01   30.98   8.15   32   33.92   8.98   8.04   7.38   9.94   7.38   9.94   7.38   9.94   7.38   9.94   7.38   9.94   7.38   9.94   7.38   9.94   7.38   9.94   7.38   9.94   7.38   9.94   7.38   9.94   7.38   9.94   7.38   9.94   7.38   9.94   7.38   9.94   7.38   9.94   7.38   9.94   7.38   9.94   7.38   9.94   7.38   9.94   7.38   9.94   7.38   9.94   7.38   9.94   7.38   9.94   7.38   9.94   7.38   9.94   7.38   9.94   7.38   9.94   7.38   9.94   7.38   9.94   7.38   9.94   7.38   9.94   7.38   9.94   7.38   9.94   7.38   9.94   7.38   9.94   7.38   9.94   7.38   9.94   7.38   9.94   7.38   9.94   7.38   9.94   7.38   9.94   7.38   9.94   7.38   9.94   7.38   9.94   7.38   9.94   7.38   9.94   7.38   9.94   7.38   9.94   7.38   9.94   7.38   9.94   7.38   9.94   7.38   9.94   7.38   9.94   7.38   9.94   7.38				
16 15.52 3.87 15.51 3.94 15.49 4.01 15.47 4.07 16 17 16.50 4.11 16.48 4.18 16.46 4.26 16.44 4.33 17 18 17.47 4.35 17.45 4.43 17.43 4.51 17.41 4.38 18 19 18.44 4.60 18.42 4.68 18.39 4.76 19.34 5.09 20 19.41 4.84 19.38 4.92 19.36 5.01 19.34 5.09 20 19.41 4.84 19.38 4.92 19.36 5.01 19.34 5.09 20 19.41 5.35 21.32 5.42 12.30 5.51 19.34 5.09 20 19.41 5.35 22.32 5.56 19.32 5.42 12.30 5.51 19.34 5.09 20 19.42 5.46 6.65 19.32 5.66 22.29 5.66 22.27 5.76 22.24 5.86 22 23 24 23.29 5.81 23.26 5.91 23.24 6.01 23.21 6.11 24 25 24.26 6.05 24.23 6.15 24.20 6.26 24.18 6.37 25 26 25.23 6.29 25.20 6.40 25.17 6.51 25.14 6.62 26 27 26.20 6.53 26.17 6.65 26.14 6.76 26.11 6.87 27 28 27.17 6.77 27.14 6.89 27.11 7.01 27.08 7.13 28 29 28.14 7.02 28.11 7.14 28.09 7.26 28.04 7.38 29 28.14 7.02 28.11 7.14 28.09 7.26 28.04 7.38 29 29.81 4 7.02 28.11 7.14 28.09 7.26 28.04 7.38 29 29.81 4 7.02 28.11 7.14 28.09 7.26 28.04 7.38 29 30 29.11 7.26 29.08 7.38 29.04 7.51 29.01 7.64 30 31.30.08 7.50 30.05 7.63 30.01 7.76 29.98 7.39 31 32.31.05 7.74 31.02 7.88 30.98 8.01 30.95 8.15 32 31.30.8 7.50 30.95 7.63 30.91 7.76 29.98 7.89 31 32.31.05 7.74 31.02 7.88 30.98 8.01 30.95 8.15 32 31.95 8.26 31.91 8.40 31.93 8.49 3.5 35.86 9.11 35.82 9.26 35.78 9.42 37 32.99 8.23 32.95 8.37 32.92 8.51 32.88 8.66 34 35.39.98 8.76 33.89 8.76 33.89 8.76 33.89 8.76 33.89 8.76 33.89 8.76 33.89 8.76 33.89 8.76 33.89 8.76 33.89 8.76 33.89 8.76 33.89 8.76 33.89 8.76 33.89 8.76 33.89 8.76 33.89 8.76 33.89 8.76 33.89 8.76 33.89 8.76 33.89 8.76 33.89 8.76 33.89 8.76 33.89 8.76 33.89 8.76 33.89 8.76 33.89 8.76 33.89 8.76 33.89 8.76 33.89 8.70 33.89 8.70 33.89 8.70 33.89 8.70 33.89 8.70 33.89 8.70 33.89 8.70 33.89 8.70 33.89 8.70 33.89 8.70 33.89 8.70 33.89 8.70 33.89 8.70 33.89 8.70 33.89 8.70 33.89 8.70 33.89 8.70 33.89 8.70 33.89 8.70 33.89 8.70 33.89 8.70 33.89 8.70 33.89 8.70 33.89 8.70 33.89 8.70 33.89 8.70 33.89 8.70 33.89 8.70 33.89 8.70 33.89 8.70 33.89 8.70 33.89 8.70 33.89 8.70 33.89 8.70 33.89 8.70 33.89 8.70 33.89 8.70 33.89 8.70 33.89 8.70 33.89 8.70 33.89 8.70 33.89				
17   16.50   4.11   16.48   4.18   16.46   4.26   16.44   4.33   17   18   17.47   4.35   17.45   4.43   17.43   4.51   17.41   4.58   18   19   18.44   4.66   18.42   4.68   18.39   4.76   18.37   4.84   19   20   19.41   4.84   19.38   4.92   19.36   5.01   19.34   5.09   20   21   20.38   5.08   20.33   5.17   20.33   5.26   20.31   5.35   21   22   21.35   5.32   21.32   5.42   21.30   5.51   21.28   5.60   22   23   22.32   5.56   22.29   5.66   22.27   5.76   22.24   5.86   23   24   23.29   5.81   23.26   5.91   23.24   6.01   23.21   6.11   24   25   24.26   6.05   24.23   6.15   24.20   6.26   24.18   6.37   25   26   25.23   6.29   25.20   6.40   25.17   6.51   25.14   6.62   26   27   26.20   6.53   26.17   6.65   26.14   6.76   26.11   6.87   27   29.28   14   7.02   28.11   7.14   28.08   7.26   28.04   7.38   29   29.81   47.02   28.11   7.14   28.08   7.26   29.08   7.38   29.04   7.51   29.01   7.64   30   31   30.08   7.50   30.05   7.63   30.01   7.76   29.98   7.38   29.31   30.32.02   7.98   31.98   8.12   31.95   8.26   31.91   8.40   33   34   32.99   8.23   32.95   8.37   32.92   8.51   32.88   8.66   34   33.99   8.27   33.89   8.76   33.89   8.76   33.89   8.76   33.89   8.76   33.89   8.76   33.89   8.76   33.89   8.76   33.89   8.76   35.78   9.42   37   80   38.81   9.68   38.77   9.85   38.73   30.02   38.68   10.18   40   41.39.78   9.92   39.74   10.09   39.59   10.27   41.58   10.95   43.41.72   10.40   41.68   10.58   42.60   11.02   42.65   10.89   43.62   11.08   43.57   11.27   43.52   11.46   45   44.65   11.37   44.55   11.32   44.55   11.52   44.48   11.71   46   44.65   11.37   45.55   11.57   45.55   11.57   45.56   11.27   45.44   45.51   12.10   26.45   45.45   12.22   48.45   12.22   48.45   12.22   48.45   12.22   48.45   12.22   48.45   12.22   48.45   12.22   48.45   12.22   48.45   12.22   48.45   12.22   48.45   12.22   48.45   12.22   48.45   12.22   48.45   12.22   48.45   12.22   48.45   12.22   48.45   12.22   48.45   12.22   48.35   12.73   50   20.22   22			DESCRIPTION OF THE PERSON.	DESCRIPTION BUILDINGS THE SECOND
19   18.44   4.60   18.42   4.68   18.39   4.76   18.37   4.84   19   20   19.41   4.84   19.38   4.92   19.36   5.01   19.34   5.09   20   20   21   20.38   5.08   20.35   5.17   20.33   5.26   20.31   5.35   21   22   21.35   5.32   21.32   5.42   21.30   5.51   21.28   5.60   22   23   22.32   5.56   22.29   5.66   22.27   5.76   22.24   5.86   23   24   23.29   5.81   23.26   5.91   23.24   6.01   23.21   6.11   24   25   24.26   6.05   24.23   6.15   24.20   6.26   24.18   6.37   25   26   25.23   6.29   25.20   6.40   25.17   6.51   25.14   6.62   26   27   26.20   6.53   26.17   6.65   26.14   6.76   26.11   6.87   27   28   27.17   6.77   27.14   6.89   27.11   7.01   27.08   7.13   28   29.28.14   7.02   28.11   7.14   28.08   7.26   28.04   7.38   29   29.11   7.26   29.08   7.38   29.04   7.51   29.01   7.64   30   30   29.11   7.26   29.08   7.38   29.04   7.51   29.98   7.89   31   33   32.02   7.98   31.95   8.36   31.95   8.26   33.92   8.51   32   33   32.02   7.98   31.95   8.26   33.89   8.01   30.95   8.15   32   33   32.02   7.98   31.98   8.12   31.95   8.26   31.91   8.40   33   34   32.99   8.23   32.95   8.37   32.92   8.51   32.88   8.66   34   35   35   36.83   9.35   36.79   9.51   36.75   9.67   38   36.87   9.19   36.83   9.35   36.79   9.51   36.75   9.67   38   36.87   9.98   38.87   9.89   38.87   9.99   38.81   9.68   38.77   9.85   38.73   30.02   39.65   10.44   41   41   42   40.75   10.16   40.71   10.34   40.66   10.52   44.58   10.18   40.45   43.46   10.89   43.62   10.08   43.62   10.08   43.62   10.08   43.62   10.08   43.65   10.37   44.56   10.13   44.56   10.37   45.55   11.57   45.45   11.97   47.45   44.45   45.55   11.57   45.45   11.20   48.46   12.31   48.41   12.52   48.35   12.73   50   48.51   12.10   48.46   12.31   48.41   12.52   48.35   12.73   50   48.51   12.10   48.46   12.31   48.41   12.52   48.35   12.73   50   48.51   12.10   48.46   12.31   48.41   12.52   48.35   12.73   50   48.51   12.10   48.46   12.31   48.41   12.52   48.35   12.73   50	17 16.50 4.11	16.48 4.18		16.44 4.33 17
20   19.41   4.84   19.38   4.92   19.36   5.01   19.34   5.09   20				
21   20.38   5.08   20.35   5.17   20.33   5.26   20.31   5.35   21   22   21.35   5.32   21.32   5.42   21.30   5.51   21.28   5.60   22   23   22.32   5.86   22.29   5.66   22.27   5.76   22.24   5.86   23   24   23.29   5.81   23.26   5.91   23.24   6.01   23.21   6.11   24   25   24.26   6.05   24.23   6.15   24.20   6.26   24.18   6.37   25   26   25.23   6.29   25.20   6.40   25.17   6.51   25.14   6.62   26   27   26.20   6.53   26.17   6.65   26.14   6.76   26.11   6.87   27   28   27.17   6.77   27.14   6.89   27.11   7.01   27.08   7.13   28   29   28.14   7.02   28.11   7.14   28.09   7.26   28.04   7.38   29   29.11   7.26   29.08   7.38   29.04   7.51   29.01   7.64   30   31   30.08   7.50   30.05   7.63   30.01   7.76   29.98   7.89   31   32.31   0.57   7.4   31.02   7.88   30.98   8.01   30.95   8.15   32   33.202   7.98   31.98   8.12   31.95   8.26   31.91   8.40   33   34.32.99   8.23   32.95   8.37   32.92   8.51   32.88   8.66   34   35.33.96   8.47   33.92   8.62   33.89   8.76   33.86   8.66   34   35.39   36.87   9.19   36.83   9.35   36.79   9.51   36.75   9.67   38   36.87   9.19   36.83   9.35   36.79   9.51   36.75   9.67   38   38.81   9.68   38.77   9.85   38.73   30.02   38.68   10.18   40   41.39.78   9.92   39.74   10.09   39.69   10.27   42.40.75   10.16   40.71   10.34   40.66   10.52   40.62   10.69   42   44.65   10.83   42.66   11.02   42.65   10.83   42.66   11.02   42.65   10.83   42.66   11.02   42.55   11.20   44.56   11.37   45.55   11.57   45.55   11.77   45.66   11.37   45.55   11.57   45.55   11.77   45.61   11.77   45.65   11.20   44.65   11.85   47.49   2.06   47.44   12.27   47.39   12.48   49   47.54   11.85   47.49   2.06   47.44   12.27   47.39   12.48   49   47.54   11.85   47.49   2.06   47.44   12.27   47.39   12.48   49   47.54   11.85   47.49   2.06   47.44   12.27   47.39   12.48   49   47.54   11.85   47.49   2.06   47.44   12.27   47.39   12.48   49   47.54   11.85   47.49   12.06   47.44   12.27   47.39   12.48   49   47.54   11.85   47.49   12.06				
22   21.35   5.32   21.32   5.42   21.30   5.51   21.28   5.60   22   23.23   5.56   22.29   5.66   23.27   5.76   22.24   5.86   23   24   23.29   5.81   23.26   5.91   23.24   6.01   23.21   6.11   24   25   24.26   6.05   24.23   6.15   24.20   6.26   24.18   6.37   25   26   25.23   6.29   25.20   6.40   25.17   6.51   25.14   6.62   26   27   26.20   6.53   26.17   6.65   26.14   6.76   26.11   6.87   27   28   27.17   7.01   27.08   7.13   29   28.14   7.02   28.11   7.14   28.08   7.26   28.04   7.38   29   29.28.14   7.02   28.11   7.14   28.08   7.26   28.04   7.38   29   29.11   7.26   29.08   7.38   29.04   7.51   29.01   7.64   30   31   30.08   7.50   30.05   7.63   30.01   7.76   39.98   7.38   29.04   7.51   29.01   7.64   30   31   30.05   7.63   30.01   7.76   39.98   31   34   32.99   8.23   31.98   8.12   31.95   8.26   31.91   8.40   33   34   32.99   8.23   33.92   8.62   33.89   8.76   33.88   8.66   34   33.99   8.76   33.86   8.67   38   36.87   919   36.83   9.35   36.79   9.51   36.75   9.67   38   38.78   9.60   37.76   9.76   37.71   9.93   39   37.84   9.44   37.80   9.60   37.76   9.76   37.71   9.93   39   37.84   9.44   37.80   9.60   37.76   9.76   37.71   9.93   39   37.84   9.44   37.80   9.60   37.76   9.76   37.71   9.93   39   37.84   9.44   37.80   9.60   37.76   9.76   37.71   9.93   39   37.84   9.44   37.80   9.60   37.76   9.76   37.71   9.93   39   37.84   9.44   37.80   9.60   37.76   9.76   37.71   9.93   39   37.84   9.44   37.80   9.60   37.76   9.76   37.71   9.93   39   37.84   9.44   37.80   9.60   37.76   9.76   37.71   9.93   39   37.84   9.44   37.80   9.60   37.76   9.76   37.71   9.93   39   37.84   9.44   37.80   9.60   37.76   9.76   37.71   9.93   39   37.84   9.44   37.80   9.60   37.76   9.76   37.71   9.93   39   37.84   9.44   37.80   9.60   37.76   9.76   37.71   9.93   39   37.84   9.44   37.80   9.60   37.76   9.76   37.71   9.93   39   37.84   9.44   37.80   9.60   37.76   9.76   37.71   9.93   39   37.84   9.44   37.80   9.60   37.76   9.76	The second secon			
23 22.32 5.56 22.29 5.66 22.27 5.76 22.24 5.86 23 24 23.29 5.81 23.26 5.91 23.24 6.01 23.21 6.11 24 25 24.26 6.05 24.23 6.15 24.20 6.26 24.18 6.37 25 26 25.23 6.29 25.20 6.40 25.17 6.51 25.14 6.62 26 27 26.20 6.53 26.17 6.65 26.14 6.76 26.11 6.87 27 28 27.17 6.77 27.14 6.89 27.11 7.01 27.08 7.13 28 29.28.14 7.02 28.11 7.14 28.08 7.26 28.04 7.38 29 20 29.11 7.26 29.08 7.38 29.04 7.51 29.01 7.64 30 30 29.11 7.26 29.08 7.63 30.01 7.76 29.98 7.89 31 33 33.00 8 7.50 30.05 7.63 30.01 7.76 29.98 7.89 31 33 33.02 7.98 31.92 8.81 31.95 8.26 33.39.98 8.01 30.95 8.15 32 31.95 8.37 33.99 8.23 32.95 8.37 32.92 8.31 32.88 8.66 34.93 8.71 34.89 8.86 34.85 9.01 34.81 9.17 36 37 35.90 8.95 35.86 9.11 35.82 9.26 35.78 9.42 37 38 36.87 9.19 36.83 9.35 36.79 9.51 36.75 9.67 38 39 37.84 9.44 37.80 9.60 37.76 9.76 9.76 38 38.91 39 37.84 9.44 37.80 9.60 37.76 9.76 9.76 38 38.91 39 37.84 9.44 37.80 9.60 37.76 9.76 9.76 38 34.72 10.40 41.68 10.58 41.63 10.72 44.56 10.18 40 41.58 10.58 44.36 10.18 40 41.58 10.58 44.36 10.18 40 41.59 10.64 42.65 10.88 42.65 11.02 44.55 11.20 44.55 11.20 44.55 11.20 44.55 11.21 44.55 11.21 44.55 11.21 48.46 12.31 48.41 12.52 48.35 12.73 50 10.91 Lat. 10				
24 23.29 5.81 23.26 5.91 23.24 6.01 25.21 6.11 24 25 24.26 6.05 24.23 6.15 24.20 6.26 24.18 6.37 25 26 25.23 6.29 25.20 6.40 25.17 6.51 25.14 6.62 26 27 26.20 6.53 26.17 6.05 26.14 6.76 26.11 6.87 27 28 27.17 6.77 27.14 6.89 27.11 7.01 27.08 7.13 28 29.28 14 7.02 28.11 7.14 28.09 7.26 28.04 7.38 29 30 29.11 7.26 29.08 7.38 29.04 7.51 29.01 7.64 30.03 13.008 7.50 30.05 7.63 30.01 7.76 29.98 7.89 31 32 31.05 7.74 31.02 7.88 30.98 8.01 30.98 7.89 31 33 32.02 7.98 31.98 8.12 31.95 8.26 31.91 8.40 33 34 32.99 8.23 32.95 8.37 32.92 8.51 32.88 8.66 34 35 33.96 8.47 33.92 8.62 33.89 8.76 38.85 8.91 35 36.34 9.3 8.71 34.89 8.86 34.85 9.01 34.81 9.17 36 39 37.84 9.44 37.80 9.60 37.76 9.76 37.71 9.93 39 37.84 9.44 37.80 9.60 37.76 9.76 37.71 9.93 39 37.84 9.44 37.80 9.60 37.76 9.76 37.71 9.93 39 37.84 9.44 37.80 9.60 37.76 9.76 37.71 9.93 39 37.84 9.44 37.80 9.60 37.76 9.76 37.71 9.93 39 37.84 9.44 37.80 9.60 37.76 9.76 37.71 9.93 39 34.31.72 10.40 41.68 10.58 41.63 10.77 44.560 11.13 44.561 10.89 43.62 11.08 43.57 11.27 44.560 11.37 44.561 11.37 45.55 11.57 46.60 11.70 44.55 11.20 44.54 36.61 1.13 44.55 11.20 44.54 36.51 11.10 44.55 11.20 48.46 12.31 48.41 12.52 48.35 12.73 50 48.51 12.10 5ep. Lat. 5ep. Lat				21.20 0.00
25 24.26 6.05 24.25 6.15 24.20 6.26 24.18 6.37 25 26 25.23 6.29 25.20 6.40 25.17 6.51 25.14 6.62 26 27 26.20 6.53 26.17 6.65 26.14 6.76 26.11 6.87 27 28 27.17 6.77 27.14 6.89 27.11 7.01 27.08 7.13 28 29 28.14 7.02 28.11 7.14 28.08 7.26 28.04 7.38 29 29.11 7.26 29.08 7.38 29.04 7.51 29.01 7.64 30 31 30.08 7.50 30.05 7.63 30.01 7.76 29.98 7.89 31 32.02 7.98 31.98 8.12 31.95 8.26 31.91 8.40 33 32.02 7.98 31.98 8.12 31.95 8.26 31.91 8.40 33 33.20 7.98 31.98 8.12 31.95 8.26 31.91 8.40 33 33.99 8.23 32.95 8.37 32.92 8.51 32.88 8.66 34 35 33.96 8.47 33.92 8.62 33.89 8.76 33.85 8.91 35 36.34.93 8.71 34.89 8.86 34.85 9.01 34.81 9.17 36 37 35.90 8.95 35.86 9.11 35.82 9.26 35.78 9.42 37 8.9 39 37.84 9.44 37.80 9.60 37.76 9.76 37.71 9.93 39 37.84 9.44 37.80 9.60 37.76 9.76 37.71 9.93 39 37.84 9.44 37.80 9.60 37.76 9.76 37.71 9.93 39 37.84 9.44 41.39.78 9.92 39.74 10.09 39.90 10.27 40.62 10.64 42.65 10.83 42.60 11.02 42.40.75 10.16 40.71 10.34 40.66 10.52 40.62 10.69 42.65 10.83 42.60 11.02 42.55 11.20 44.45 43.66 10.89 43.62 11.08 43.57 11.27 43.52 11.46 45 44.66 11.37 45.55 11.57 45.50 11.77 45.45 11.27 47.49 12.06 47.44 12.27 47.39 12.48 49 47.54 11.85 50 48.51 12.10 Dep. Lat. Dep. Lat. Dep. Lat.				
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27   26.20   6.53   26.17   6.65   26.14   6.76   26.11   6.87   27   28.27.17   6.77   27.14   6.89   27.11   7.01   27.08   7.13   29   29.28.14   7.02   28.11   7.14   28.08   7.26   28.04   7.38   29   29.02   7.38   29.04   7.51   29.01   7.64   30   31   30.08   7.50   30.05   7.63   30.01   7.76   29.98   7.89   31   32   31.05   7.74   31.02   7.88   30.98   8.01   30.95   8.15   32   33.32.02   7.98   31.98   8.12   31.95   8.26   31.91   8.40   33   34   32.99   8.23   32.95   8.37   32.92   8.51   32.88   8.66   34   33.99   8.27   33.89   8.76   33.85   8.91   35   35.86   9.11   35.82   9.26   35.78   9.42   37   38   36.87   9.19   36.83   9.35   36.79   9.51   36.75   9.67   38   36.87   9.19   36.83   9.35   36.79   9.51   36.75   9.67   38   38   38   38   38   38   38   3				PARTICULAR DISCOURT TO THE PARTY OF THE PART
2827.17   6.77   27.14   6.89   27.11   7.01   27.08   7.13   28   29.28.14   7.02   28.11   7.14   28.08   7.26   29.04   7.38   29.04   7.51   31.30.08   7.50   30.05   7.63   30.01   7.76   29.98   7.89   31   32.31.05   7.74   31.02   7.88   30.98   8.01   30.95   8.15   32   33.32.02   7.98   31.98   8.12   31.95   8.26   31.91   8.40   33   34   32.99   8.23   32.95   8.37   32.92   8.51   32.88   8.66   34   35.33.96   8.47   33.92   8.62   33.89   8.76   33.85   8.91   35   35.33.96   8.47   34.89   8.86   34.85   9.01   34.81   9.17   36   37   35.90   8.95   35.86   9.11   35.82   9.26   35.78   9.42   37   38.36.87   9.19   36.83   9.35   36.79   9.15   36.75   9.67   38   39.37.84   9.44   37.80   9.60   37.76   9.76   37.71   9.93   39   37.84   9.44   37.80   9.60   37.76   9.76   37.71   9.93   39   37.84   9.44   37.80   9.60   37.76   9.76   37.71   9.93   39   34.72   10.40   41.68   10.58   41.63   10.72   41.58   10.95   44.42   40.75   10.16   40.71   10.34   40.66   10.52   40.62   10.69   42   43.46   10.89   43.62   11.08   43.57   11.27   42.55   11.20   44.58   11.32   44.58   11.32   44.58   11.32   44.58   11.37   45.55   11.57   45.45   11.77   45.45   11.71   46.47   45.60   11.37   45.55   11.57   46.47   12.02   47.39   12.48   49   47.54   11.85   47.49   12.06   47.44   12.27   47.39   12.48   49   47.54   11.85   47.49   12.06   47.44   12.22   48.35   12.73   50   10.91   12.10   12.10   12.10   12.10   12.10   12.10   12.10   12.10   12.10   12.10   12.10   12.10   12.10   12.10   12.10   12.10   12.10   12.10   12.10   12.10   12.10   12.10   12.10   12.10   12.10   12.10   12.10   12.10   12.10   12.10   12.10   12.10   12.10   12.10   12.10   12.10   12.10   12.10   12.10   12.10   12.10   12.10   12.10   12.10   12.10   12.10   12.10   12.10   12.10   12.10   12.10   12.10   12.10   12.10   12.10   12.10   12.10   12.10   12.10   12.10   12.10   12.10   12.10   12.10   12.10   12.10   12.10   12.10   12.10   12.10   12.10   12.10   12.10   12.10   12.10   12.10   12.10	27 26.20 6.53			DOMESTIC BUILDING
28.04   7.38   29   29.08   7.36   29.04   7.38   29   30   29.11   7.26   29.08   7.38   29.04   7.51   29.01   7.64   30   31   30.08   7.50   30.05   7.63   30.01   7.76   29.08   7.89   31   32   31.05   7.74   31.02   7.88   30.98   8.01   30.95   8.15   32   33   32.02   7.98   31.98   8.12   31.95   8.26   31.91   8.40   33   34   32.99   8.23   32.95   8.37   32.92   8.51   32.88   8.66   34   35   33.96   8.47   33.92   8.52   33.89   8.76   38.85   8.91   35   33.96   8.47   33.92   8.51   32.88   8.66   34   33.93   8.71   34.89   8.86   34.85   9.01   34.81   9.17   36   36.87   9.19   36.83   9.35   36.79   9.51   36.75   9.67   38   39   37.84   9.44   37.80   9.60   37.76   9.76   37.71   9.93   39   37.84   9.44   37.80   9.60   37.76   9.76   37.71   9.93   39   37.84   9.44   37.80   9.60   37.76   9.76   37.71   9.93   39   37.84   9.44   37.80   9.60   37.76   9.76   37.71   9.93   39   34.41   72.10   40   41.68   10.33   41.63   10.77   41.58   10.18   40.66   42.65   10.83   42.60   11.02   42.55   11.20   44.54   43.66   10.89   43.62   11.08   43.57   11.27   45.65   11.37   45.55   11.57   45.65   11.77   45.45   11.97   47   48.46   11.13   44.58   11.32   44.53   11.52   44.48   11.71   46   49.7.54   11.85   47.49   12.06   47.44   12.27   47.39   12.48   49   47.54   11.85   47.49   12.06   47.44   12.27   47.39   12.48   49   47.54   11.85   47.49   12.06   47.44   12.27   47.39   12.48   49   47.54   11.85   47.49   12.06   47.44   12.27   47.39   12.48   49   47.54   11.85   47.49   12.06   47.44   12.27   47.39   12.48   49   47.54   11.85   47.49   12.06   47.44   12.27   47.39   12.48   49   47.54   11.85   47.49   12.06   47.44   12.27   47.39   12.48   49   47.54   11.85   47.49   12.06   47.44   12.27   47.39   12.48   49   47.54   11.85   47.49   12.06   47.44   12.27   47.39   12.48   49   47.54   11.85   47.49   12.06   47.44   12.27   47.39   12.48   49   47.54   11.85   47.49   12.06   47.44   12.27   47.39   12.48   49   47.54   11.85   47.49   12.06   47.44   12.2	28 27.17 6.77		27.11 7.01	CONTROL BUILDING TOWN
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52 49.99 14.33	49.92 14.55	49.86 14.77	49.79 14.99 5	
53 50.95 14.61	50.88 14.83	50.82 15.05	50.75 15.27 5	
54 51 91 14.88 55 52.87 15.16	51.84 15.11 52.80 15.39	51.78 15.34 52.74 15.62	The latest the second to	4
56 53.83 15.44	53.76 15.67	53.69 15.90		6
57 54.79 15.71	54.72 15.95	54.65 16.19	54.58 16.43 5	
58 55.75 15.99	55,68 16.23	55.61 16.47		8
59 56.71 16.26	56.64 16.51	56.57 16.76		9
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61 58.64 16.81	58.56 17.07	58.49 17.32	58.41 17.58 6	-
62 59.60 17.09	59.52 17.35	59.45 17.61		2
63 60.56 17.37 64 61.52 17.64	61.44 17.91	60.41 17.89 61.36 18.18		8
65 62.48 17.92	62.40 18.19	62.32 18.46	The second second second second	5
66 63.44 18.19	63.36 18.47	63.28 18.74		6
67 64 40 18.47	64:32 18:75	64.24 19.03	64.16 19.31 6	7
68 65.37 18.74	65.28 19.03	65.20 19.31		8
69 66.33 19.02	66.24 19.31	66.16 19.60		9
70 67.29 19.29	67.20 19.59	67.1 19.88	The second secon	0
71 68.25 19.57	68,16 19.87	68.08 20.17		1
72 69.21 19.85 73 70.17 20.12	69.12 20.15 70.08 20.43	69.03 20.45 69.99 20.73	THE RESERVE AND THE PARTY NAMED IN	2
74 71 13 20 40	71.04 20.71			4
75 72.09 20.67	72.00 20.99	71.91 21.30	The second second	5
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77 74.02 21.22	73.92 01.55	73.83 31.87	73.73 22.19 7	7
7874.9821.50	74.88 21.83	74.70 22.15	74.69 22.48 7	B
79 75.94 21.78 80 76.90 22.05	75.84 32.11 76.8 32.39	75.75 22.44 76.71 22.72	Supplied Market III	9
	Andrew Company		The second second second	9 11
81 77.86 22 33 82 78.82 22.60	77.76 22.67 78.72 22.95	77.60 23.01 78.62 25.29		1
83 79.78 22.88	79.68 23.23	79.58 23.57		31
84 80.75 23.15	80.64 23.51	80.54 23.86		
85 81.71 23.43	81.60 23.79	81.50 24.14	81.59 24.50 8	5
86 82.67 23.70	82.56 24.07	82.46 24.43		6
87 83.63 23.98	83.52 24.35	83.42 24.71	83.31 25 07 8	
88 84,59 24,26   89 85,55 24,53	84.48 24.62 85.44 24.90	84,38 24,99 85,33 25,28	The Control of the Co	8
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95 91.32 26.19	91.20 26.58	91.09 26.98	SAIST STORM S	5
96 92.28 26.46	92,16 26.86	92.05 27.27		6
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5 Deg.	151 Deg.	151 Deg.	153 Deg. D
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1 0.97 0.26 2 1.93 0.52 3 2.90 0.78	1.93 0.53	1.93 0.53	1.92 0.54 2
	2.89 0.79 3.86 1.05	2.89 0.80 3.85 1.07	2.89 0.81 3 3.85 1.09 4
4 3.86 1.04 3 4.83 1.29	4.82 1.32	4.82 1.34	3.85 1.09 4 4.81 1.36 5 5.77 1.63 6
6 5.80 1.55	5.79 1.58	5.78 1.60	5.77 1.63 6
7 6.76 1.81	6.75 1.84	6.75 1.87	6,74 1.90 7
8 7.73 2.07	7.72 2.10	7.71 2.14	7.70 2.17 8
9 8.69 2.33	8.68 2.37	8.67 2.41	8.66 2.44 9
10 9.66 2.59	9.65 2.63	$\frac{9.64}{10.60} \frac{2.67}{2.94}$	9.62 2.71 10
11 10.65 2.85 12 11.59 3.11	10.61 2.89	10.60 2.94 11.56 3.21	10.59 2.99 11 11.55 3.26 12
12 11.59 3.11 13 12.56 3.36	11.58 3.16 12.54 3.42	12.53 3.47	11.55 3.26 12 12.51 3.53 13
14 13.52 3.62	13.51 3.68	13.49 3.74	13.47 3.80 14
15 14-49 3.88	14.47 3.95	14.45 4.01	14.44 4.07 15
16 15.45 4.14	15:44 4.21	15.42 4.28	15.40 4.34 16
17 16.42 4.40	16.40 4.47	16.38 4.54	16.36 4.61 17
18 17.39 4.66	17.37 4.73	17.35 4.81 18.31 5.08	17.32 4.89 18 18.29 5.16 19
19 18.35 4.92 20 19.32 5.18	18.33 5.00 19.30 5.26	19.27 5.34	18.29 5.16 19 19.25 5.43 20
21 20.28 5.44	20.26 5.52	20.24 5.61	20.21 5.70 21
22 21.25 5.69	21.23 5.79	21.20 5.88	21.17 5.97 22
23 22.22 5.95	22.19 6.05	22.16 6.15	22.14 6.24 23
24 23.18 6.21	23.15 6.31	23.13 6.41	23.10 6.51 24
25 24.15 6.47	24.12 6.58	24.09 6.68	24.06 6.79 25
26 25.11 6.73 27 26.08 6.99	25.08 6.84	25.05 6.95	25.02 7.06 26
27 26.08 6.99 28 27.05 7.25	26.05 7.10 27.01 7.36	26.02 7.22 26.98 7.48	25.99 7.33 27 26.95 7.60 28
29 28.01 7.51	27.98 7.63	27.95 7.75	26.95 7.60 28 27.91 7.87 29
30 28.98 7.76	28.94 7.89	28.91 8.02	28.87 8.14 30
31 29.94 8.02	29.91 8.15	29.87 8.28	29.84 8.41 31
32 30.91 8.28	30.87 8.42	30.84 8.55	30.80 8.69 32
33 31.88 8.54	31.84 8.68	31.80 8.82	31.76 8.96 33
34 32:84 8.80	32.80 8.94	32.76 9.09 33.73 9.35	32.72 9.23 34
35 33.81 9.06 36 34.77 9.32	33.77 9.21 34.73 9.47	33.73 9.35 34.69 9.62	33.69 9.50 35 34.65 9.77 36
36 34.77 9.32 37 35.74 9.58	35.70 9.73	35.65 9.89	35.61 10.04 57
38 36.71 9.84	36.66 10.00	36.62 10.16	36.57 10.31 38
39 37.67 10.09	37.63 10.26	37.58 10.42	37.54 10.59 39
40 38:64 10:35	38.59 10.52	38.55 10.69	38.50 10.86 40
41 39.60 10.61	39.56 10.78	39.51 10.96	39.46 11.13 41
42 40.57 10.87	40.52 11.05	40.47 11.22	40.42 11.40 42
43 41.53 11.13	41.49 11.31	41.44 11.49 42.40 11.76	41.39 11.67 43
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47 45.40 12.16	44.38 12.10 45.35 12.36	45.29 12.56	45.24 12.76 47
48 46.36 12.42	46.31 12.63	46.25 12.83	46.20 13.03 48
49 47.33 12.68	47.27 12.89	47.22 13.09	47.16 13.30 49
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51 49.26 13.20	49.20 13.41	49.15 13.63	49.09 13.84 51
52 50.23 13.46	50.17 13.68	50.11 13.90	50.05 14.11 52
53 51.19 13.72	51.13 13.94	51.07 14.16	51.01 14.39 53
54 52.16 13.98	52.10 14.20	52.04 14.43	51.97 14.66 54
55 53.13 14.24 56 54.09 14.49	53.06 14.47 54.03 14.73	5S.00 14.70 5S.96 14.97	52.94 14.93 55 53.90 15.20 56
57 55.06 14.75	54.99 14.99	54.93 15.23	53.90 15.20 56 54.86 15.47 57
58 56.02 15.01	55.96 15.26	55.89 15.50	55.82 15.74 58
59 56.99 15.27	56.92 15.52	56.85 15.77	56.78 16.01 59
60 57.96 15.53	57.89 15.78	57.82 16.03	57.75 16.29 60
61 58.92 15.79	58.85 16.04	58.78 16.30	58.71 16.56 61
62 59.89 16.05	59.82 16:31	59.75 16.57	59,67 16,83 69
63 60.85 16.31	60.78 16.57	60.71 16.84	60.63 17.10 63
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67 64.72 17.34	64.64 17.62	64 56 17.90	64.48 18.19 67
68 65.68 17.60	65.61 17.89	65 53 18 17	65.45 18.46 68
69 66.65 17.86	66.57 18.15	66.49 18.44	66.41 18.73 69
70 67.61 18.12	67.54 18.41	67.45 18.71	67.37 19.00 70
71 68.58 18.38	68.50 18.68	68.42 18.97	68.33 19.27 71
72 69.55 18.63	69.46 18.94	69.38 19.24	69.30 19.54 72
73 70.51 18.89	70.43 19.20	70.35 19.51	70.26 19.82 73
74 71.48 19.15 75 72.44 19.41	71.39 19.46 72.36 19.73	71.31 19.78	71.22 20.09 74
76 73.41 19.67	73.32 19.99	72.27 20.04 73.24 20.31	72.18 20.36 75 73.15 20.63 76
77 74.38 19.93	74.29 20.25	74.20 20.58	74.11 20.90 77
7875.34 20.19	75.25 20.52	75.16 20.84	75.07 21.17 78
79 76.31 20.45	76.22 20.78	76.13 21.11	76.03 21.44 79
80 77.27 20.71	77.18 21.04	77.09 21.38	77.00 21.72 80
81 78.24 20.96	78.15 21.31	78.05 21.65	77.96 21.99 81
82 79.21 21.22	79.11 21.57	79.02 21.91	78.92 22.26 82
83 80.17 21.48	80.08 21.83	79.98 22.18	79.88 22.53 83
84 81.14 21.74 85 82.10 22.00	81.04 22.09 82.01 22.36	80.94 22.45 81.91 22.72	80.85 22.80 84 81.81 23.07 85
86 83.07 22.26	82.97 22.62	82.87 22.98	82.77 23.34 86
87 84.04 22.52	83.94 22.88	83.84 23.25	83.73 23.62 87
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89 85.97 23.03 90 86.93 23.29	85.87 23.41	85.76 23.78	85.66 24.16 89
	86.83 23.67	86.73 24.05	86.62 24.48 90
91 87.90 23.55	87.80 23.94	87.69 24.32	87.58 24.70 91
92 88.87 25.81	88.76 24.20 89.73 24.46	88.65 24.59	88.55 24.97 92
93 89.83 24.07 94 90.80 24.33	90.69 24.72	89.62 24.85 90.58 25.12	89.51 25.24 93 90.47 25.52 94
95 91.76 24.59	91.65 24.99	91.54 25.39	90.47 25.52 . 94 91.43 25.79 95
96 92.73 24.85	92.62 25.25	92.51 25.65	92.40 26.06 96
97 93.69 25.11	93.58 25.51	93.47 25.92	93.36 26.33 97
98 94.66 25.36	94.55 25.78	94.44 26.19	94.32 26.60 98
99 95.63 25.62	95,51 26.04	95.40 26.46	95.28 26.87 99
100 96.59 25.88	96.48 26.30	96.36 26.72	96.25 27.14 100
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5 75 Deg.	743 Deg.	741 Deg.	741 Deg. 0
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1 0 16 Deg.	161 Deg.	161 Deg.	16 Deg. 01
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		1.92 0.57	1.92 0.58 2
2 1.92 0.55 3 2.88 0.83 4 3.85 1.10	2.88 0.84	2.88 0.85	2.87 0.86 3 1
4 3.85 1.10	3.84 1.12	3.84 1.14	3.83 1.15 4
5 4.81 1.38	4.80 1.40	4.79 1.42	4.79 1.44 5
6 5.77 1.65	5.76 1.68	5.75 1.70	5.75 1.73 6
5 4.81 1.38 6 5.77 1.65 7 6.73 1.93 8 7.69 2.21	6.72 1.96	6.71 1.99	6.70 2.02 7
	7.68 2.24	7.67 2.27 8.63 2.56	7.66 2.31 8 8.62 2.59 9
	8.64 2.52 9.60 2.80		8.62 2.59 9 9.58 2.88 10
Secretal Sections Section 1	The second second	Second Second	The second secon
11 10.57 3.03	10.56 3.08	10.55 3.12 11.51 3.41	
12 11.54 3.31 13 12.50 3.58	11.52 3.36 12.48 3.64	12.46 3.69	11.49 3.46 12 12.45 3.75 13
14 13.46 3.86	13.44 3.92	13.42 3.98	13.41 4.03 14
15 14.42 4.13	14.40 4.20	14.38 4.26	14.36 4.32 15
16 15.38 4.41	15.36 4.48	15.34 4.54	15.32 4.61 16
17 16.34 4.69	16.32 4.76	16.30 4.83	16.28 4.90 17
18 17.30 4.96	17:28 5.04	17.26 5.11	17.24 5.19 18
19 18.26 5.24	18.24 5.32	18.22 5.40	18.19 5.48 19
20 19.23 5.51	19.20 5.60	19.18 5.68	19.15 5.76 20
21 20.19 5.79	20.16 5.88	20.14 5.96	20.11 6.05 21
22 21.15 6.06	21.12 6.16	21.09 6.25	21.07 6.34 22
23 22.11 6.34	22.08 6.44	2.05 6.53	22.02 6.63 23
24 23.07 6.62	23.04 6.72	23.01 6.82	22.98 6,92 24
25 24.03 6.89	24.00 7.00	23.97 7.10	23.94 7.20 25
26 24.99 7.17 27 25.95 7.44	24.96 7.28	24.93 7.38 25.89 7.67	24.90 7.49 26
27 25.95 7.44 28 26.92 7.72	25.92 7.56 26.88 7.84	25.89 7.67 26.85 7.95	25.85 7.78 27 26.81 8.07 28
29 27.88 7.99	27.84 8.12	27.81 8.24	27.77 8.36 29
30 28.84 8.27	28.80 8.39	28.76 8.52	28.73 8.65 30
31 29.80 8.54	29.76 8.67	29.72 8.80	29.68 8.93 31
32 30.76 8.82	30.72 8.95	30.68 9.09	30.64 9.22 32
33 31.72 9.10	31.68 9.23	31.64 9.37	31.60 9.51 33
34 32.68 9.37	32.64 9.51	32.60 9.66	32.56 9.80 34
35 33.64 9.65	33.60 9.79	33.56 9.94	33.52 10.09 35
36 34.61 9.92	34.56 10.07	34.52 10.22	34.47 10.38 36
37 35.57 10.20	35.52 10.35	35.48 10.51	35.43 10.66 37
38 36.53 10.47	36.48 10.63	36.44 10.79 37.39 11.08	36.39 19.95 38 37.35 11.24 39
39 37.49 10.75 40 38.45 11.03	37.44 10.91 38.40 11.19	38.35 11.36	37.35 11.24 39 38.30 11.53 40
41 39.41 11.30		39.31 11.64	The second lines and the second
42 40.37 11.58	39.36 11.47 40.32 11.75	40.27 11.93	39.2611.82 41 40.2212.10 42
43 41.33 11.85	41.28 12.03	41.23 12.21	41.18 12.39 43
44 42.30 12.13	42.24 12.31	42.19 12.50	42.13 12.68 44
45 43 26 12.40	43.20 12.59	43.15 12.78	43.09 12.97 45
46 44.22 12.68	44.16 12.87	44.11 13.06	44.05 13.26 46
47 45.18 12.96	45.12 13.15	45.06 13.35	45.01 13.55 47
48 46.14 13.23	46.08 13.43	46.02 13.63	45.96 13.83 48
49 47.10 13.51	47.04 13.71	46.98 13.92	46.92 14.12 49
50 48.06 13.78	48.00 13.99	47.94 14.20	47.88 14.41 50
Dep. Lat.	Dep. Lat.	Dep . Lat.	Dep. Lat.
74 Deg.	733 Deg.	731 Deg.	731 Deg.
1	Section 1 with the last	de la constante de la constant	

				ě.
16 Deg. 1	162 Deg. 1	161 Deg. 1	162 Deg. 5	ï
Ent. (Dep.	Lat. Dep.	Lat Dep.	Lar Dep. 2	ı
51 49.02 14.06	48.96 14.27	48.90 14.48	48.80 14.70 51	ı
52 49.99 14.33	49.92 14.55	49.86 10.77	49.79 14.99 52	ı
53 50.95 14.61	50.88 14.83	50.82 15.05	50.75 15.27 53	ı
54 51.91 14.88	51.84 15.11	51.78 15.34	51.71 15.56 54	I
55 52.87 15.16 56 53.83 15.44	52.80 15.39	52.74 15.62	52.67 15.85 55	ě.
56 53.83 15.44	53.76 15.67	53.69 15.90	53.62 16.14 56	ı
57 54.79 15.71	54.72 15.95	54.65 16.19	54.58 16.43 57	ı
58 55.75 15.99	55.68 16.23	55.61 16.47	55.54 16.72 58	а
59 56.71 16.26	56.64 16.51	56.57 16.76	56.50 17.00 59	А
60 57.68 16.54	57.60 16.79	57.53 17.04	57.45 17.29 60	ı
61 58.64 16.81	58.56 17.07	58.49 17.32	58.41 17 58 61	П
62 59.60 17.09	59.52 17.35	59.45 17.61	39.37 17.87 62	а
63 60.56 17.37 64 61.52 17.64	60.48 17.63 61.44 17 91	60.41 17.89 61.36 18.18	60.38 18.16 63 61.28 18.44 64	a
64 61.52 17.64 65 62.48 17.92	62.40 18.19	61.36 18.18 62.32 18.46	61.28 18.44 64 62.24 18.73 65	
66 63.44 18.19	63.36 18.47	63.28 18.74	63.20 19.02 66	1
67 64.40 18.47	64.32 18.75	64.24 19.03	64.16 19.31 67	1
68 65.37 18.74	65.28 19.03	65.20 19.31	65.11 19.60 68	1
69 66.33 19.02	66 24 19.31	66.16 19.60	66.07 19.89 69	
70 67.29 19.29	67.20 19.59	67.1. 19.88	67.03 20.17 70	
71 68.25 19.57	68.16 19.87	68.08 20.17	67.99 20.46 71	а
72 69.21 19.85	69.12 20.15	69.03 20.45	68.95 20.75 72	а
73 70.17 20.12 74 71.13 20.40	70.08 20.43	69.99 20.73	69.90 21.04 73	В
7471.13 20.40	71.04 20.71	70.95 21.02	70.86 21.33 74	в
75 72.09 20.67	72.00 20.99 72.9c 21.27	71.91 21.30	71.82 21.61 75	а
76 73.06 20.95	72.96 21.27	72.8/ 21.59	72.78 21.90 76 73.73 22.19 77	A.
77 74.02 21.22	73.9. 21.55	73.83 21.87	73.73 22.19 77	и
78 74.98 21.50 79 75.94 21.78	74.88 21.83 75.84 22.11	74.79 22.15	74.69 22.48 78 75.65 22.77 79	и
80 76.90 22.05	76.8 22.39	76.71 22.72	76.61 23.06 80	П
81 77.86 22.33	77.76 22.67	77.66 25.01		а
82 78.82 22.60	78.72 32.95	78.62 25.29	77.56 23.34 81 78.52 23.63 82	а
83 79.78 22.88	79.68 23.23	79.58 23.57	79.48 23.92 83	4
84 80.75 23.15	80.64 23.51	80.54 23.86	80.44 24.21 84	а
85 81.71 23.43	81.60 23.79	81.50 24.14	81.39 24.50 85	а
86 82.67 23.70	82.56 24.07	82.46 24.43	82.35 24.78 86	a
87183.63123.98	83.52 24.35	83.42 24.21	83,31 25.07 87	18
88 84.59 24.26	84.48 24.62	84.38 24.99	84.27 25-36 88	1
89 85.55 24.53	85.44 24.90	85.33 25.28	85.22 25.65 89	
90 86.51 24.81	86.40 25.18	86.29 25.56	86.18 25.54 90	
91 87.47 25.08	87.36 25.46	87.25 25.85	87.14 26.23 91	1
92 88:44 25.36 93 89.40 25.63	88.32 25.74 89.28 26.02	88.21 26.13 89.17 26.41	88.10 26.51 92 89.05 26.80 93	
93 89.40 25.63 94 90.36 25.91	89.28 26,02 90.34 26.30	89.17 26.41 90.13 26.70		
95 91 32 26 19	91.20 26.58	91.09 26.98	90.01 27.09 94 90.97 27.38 95	
96 92.28 26.46	92.16 26.86	92.05 27.27	91.93 27.67 96	
97 93.94 26.74	93.18 27.14	93.01 27.55	92.88 27.95 97	1
98 94.20 27.01	94.08 27.42	93.96 27.83	93.84 28.24 98	I
9995.1627.29	95.04 27.70	94.92 28.12	94.80 28.53 99	1
100 96.13 27.56	96.00 27.98	95.88 28.40	95.76 28.82 100	
Dep Lat.	Dep Lar.	Dep. Lat	Dep Lat	I
5 74 Deg	784 Deg.	731 Deg.	75 Deg. 5	1
C. Marie Co.	The same of the sa	1 5		1

	of the last	Marie Control	- 1
D 17 Deg.	17 Deg.	17 1 Deg.	173 Deg. D
A Lat. Dep.	Lat. Dep.	Lat. Dep.	Lat. Dep. =
1 0.96 0.29	0.95 0.30	0.95 0.30	0.95 0.30 1
1 0.96 0.29 2 1.91 0.58 3 2.87 0.88 4 3.83 1.17 5 4.78 1.46 6 5.74 1.75 7 6.69 2.05 8 7.65 2.34 9 8.61 2.63	1.91 0.59	1.91 0.60	1.90 0.61 2
3 2.87 0.88	2.87 0.89	2.86 0.90	2.86 0.91 3
4 3.83 1.17	3.82 1.19	3.81 1.20	3.81 1.22 4
5 4.78 1.46	4.78 1.48	4.77 1.50	4.76 1.52 5
6 574 1.75 7 6.69 2.05	5.73 1.78	5.72 1.80 6.68 2.10	5.71 1.83 6 6.67 2.13 7
7 6.69 2.05 8 7.65 2.34	7.64 2.37	7.63 2.41	6.67 2.13 7 7.62 2.44 8
9 8.61 2.63	8.60 2.67	8.58 2.71	8.57 2.74 9
10 9.56 2.92	9.55 2.97	9.54 3.01	9.52 3.05 10
11 10.52 3.22	10.51 3.26	10.49 3.31	10.48 3.35 11
1211.48 3.51	11.46 3.56	11.44 3.61	11.43 3.66 12
13 12.43 3.80	12.42 3.85	12.40 3.91	12.38 3.96 13
14 13.39 4.09	13.37 4.15	13.35 4.21	13.33 4.27 14
15 14:34 4:39	14.53 4.45	14.31 4.51	14.29 4.57 15
16 15.30 4.68	15.28 4.74	15.26 4.81	15:24 4.88 16
17 16.26 4.97	16:24 5:04	16.21 5.11	16.19 5.18 17
18 17.21 5.26	17 19 5:34	17.17 5.41	17.14 5.49 18
19 18.17 5.36	18.15 5.63	18.12 5.71	18.10 5.79 19
20 19.13 5.85	19.10 593	19.07 6.01	19.05 6.10 20
21 20.08 6.14	20.06 6.23	20.03 6.31	20.00 6.40 21 20.95 6.71 22
22 21.04 6.43 23 21.99 6.72	21.01 6.52 21,97 6.82	20.98 6.62 21.94 6.92	Buddleton Illustrated Illustration
24 22.95 7.02	22.92 7.12	2.89 7-22	
25 23.91 7.31	23.88 7.41	23.84 7.52	22.86 7.32 24 23.81 7.62 25
26 24.86 7.60	24.83 7.71	24.80 7.82	24.76 7.93 26
27 25.82 7.89	25.79 8.01	25.75 8.12	25.71 8.23 27
28 26.78 8.19	26.74 8.30	26:70 8.42	26.67 8.54 28
29 27.73 8.48	27.70 8.60	27.66 8.72	27.62 8.84 29
30 28.69 8.77	28.65 8.90	28.61 9.02	28 57 9.15 30
31 29.65 9.06	29.61 9.19	29.57 9.32	29.52 9.45 31
32 30.60 9.36	30.56 9.49	30.52 9.62	30.48 9.76 32
33 31.56 9.65	31.52 9.79	31.47 9.92	31.43 10.06 33
34 32.51 9.94	32.47 10.08	32.43 10.22	32.38 10.37 34
35 33.47 10.23	33.43 10.38	33:38 10.52 34:33 10.83	33.33 10.67 35
36 34.43 10.53 37 35.38 10.82	34.38 10.68 35.34 10.97	34.33 10.83 35.29 11.13	34.29 10.98 36 35.24 11.28 37
38 36.34 11.11	36.29 11.27	36.24 11.43	36.19 11.58 38
59 37 30 11.40	37.25 11.57	37.20 11.73	37.14 11.89 39
40 38.25 11.69	38.20 11.86	38.15 12.03	38.10 12.19 40
41 39.21 11.99	39.16 12.16	39.10 12.33	39.05 12.50 41
42 40.16 12.28	40.1112.45	40.06 12.63	40.00 12.80 42
43 41.12 12.57	40.11 12.45 41.07 12.75	41.01 12.93	40.95 13.11 43
44 42.08 12.86	42.02 13.05	41.96 13.23	41.91 13.41 44
45 43.03 13.16	42.98 13.34	42.92 13.53	42.86 13.72 45
46 43.99 13.45	43.95 13.64	43.87 13.83 44.82 14.13	43.81 14.02 46
47 44.95 13.74	44.89 13.94	44.8214.13	44.76 14.38 47 45.72 14.63 48
48 45.90 14.03	45.84 14.23	45.78 14.43 46.73 14.73	45.72 14.63 48
49 46.86 14.33 50 47.82 14.62	46.80 14.53 47.75 14.83	47.69 15.04	TOTAL PROPERTY.
Dep. Lat.			
No. of Concession, Name of Street, or other Persons, Name of Street, or ot	Dep. Lat.	Dep. Lat.	Debit Part
73 Deg.	721 Deg.	72 Deg.	721 Deg. 👸
-	-	-	

C 17 Deg.	171 Deg.	17 Deg.	172 Deg   0
Lat. Dep.	Lat Dep.	Lat. Dep.	L.J. Dep S
51 48.77 14.91	48.71 15.12	48.64 15.54	48.57 15.55 51
52 49.73 15.20	49.66 15.42	49.59 15.64	49.52 15.85 52
53 50 68 15 50	50.62 15.72	50.55 15.94	50.48 10.16 53
54 51.64 15.79	51.57 16.01	51.50 16.24	51.45 16.46 54
54.51.64.15.79 55.52.6016.08	52.53 16.31	52.45 16.54	52.38 16.77 55
56 53.55 16.37	53.48 16.61	53.41 16.84 54.36 17.14	53.33 17.07 56
57 54.51 16.67	54.44 16.90	54.36 17.14	54.29 17.38 57
58 55.47 16.96 59 56.42 17.25	55.39 17.20	55.32 17.44	55.24 17.68 58
59 56.42 17.25 60 57.38 17.54	56.35 17.50 57.30 17.79	56.27 17.74 57.22 18.04	56.19 17.99 59 57.14 18.29 60
			THE RESERVE TO SERVE THE PARTY.
61 58.33 17.83 62 59.29 18.13	58.26 18.09	58.18 18.34 59.13 18.64	58.10 18.60 61 59.05 18.90 62
63 60.25 18.42	59.21 18.39 60.17 18.68	60.08 18.94	59.05 18.90 62 60.00 19.21 63
64 61:20 18:71	61.12 18.98	61.04 19.25	60.00 19.21 63 60.95 19.51 64
65 62 16 19 00	62.08 19.28	61.99 19.55	61.91[19.82] 65
66 63.12 19.30 67 64.07 19.59	63.03 19.57	62.95 19.85	62.86 20.12 66 63.81 20.43 67
67 64.07 19.59	63.99 19.87	63.90 20.15	63.81 20.43 67
68 65.03 19.88	64,94 20,16	64 85 20.45	64.76 20.73 68
69 65.99 20.17	65,90 20.46	65.81 20.75	65.72 21.04 69
70 66.94 20.47	66.85 20.76	66.76 21.05	66.67 21.34 70
71 67.90 20.76	67.81 21.05	67.71 21.35	67.62 21.65 71
72 68.85 21.05	68.76 21.35	68.67 21.65	
73 69.81 21.34 74 70.77 21.64	69,72 21.65	69.62 21.96 70.58 22.25	69,52 22.26 73 70.48 22.56 74
75 71.72 21.93	70.67 21.94	71.53 22.55	71 AR DO NE 75
76 72 68 29 22	77 58 99 54	72.48 22.85	72.38 23.17 76
76 72.68 22.22 77 73.64 22.51	71.63 22.24 72.58 22.54 73.54 22.83	73.44 23.15	72.38 23.17 76 73.33 23.47 77
78 74.59 22.81	74.49 23.13	74.39 23.46	74.29 23.78 78
79 75.55 23.10	75.45 23.43	75.34 23.76	75.24 24.08 79
80 76.50 23.39	76.40 23.72	76.30 24.06	76.19 24.39 80
81 77.46 23.68	77.36 24.02	77.25 24.36	77.14 24.69 81
8278.4223.97	78.31 24.32	78.20 24.66 79.16 24.96	78.10 25.00 82
83 79.37 24.27	79.27 24.61	79.16 24.96 80.11 25.26	79.05 25.30 83
84 80.33 24.56	80.22 24.91	80.11 25.26 81.07 25.56	80.00 25.61 84
85 81.29 24.85 86 82.24 25.14	81.18 25.21 82.13 25.50	82.02 25.86	80.95 25.91 85 81.91 26.22 86
87 83.20 25.44	83.09 25.80	82.97 26.16	82.86 26.52 87
88 84.15 25.73	84.04 26.10	83.93 26.46	83.81 26.83 88
89 85.11 26.02	85.00 26.39	84.88 26.76	84.76 27.13 89
90 86.07 26.31	85.95 26.69	85.83 27.06	85.72 27.44 90
91 87.02 26.61	86.91 26.99	86.79 27.36	96 67 97 74 01
92 87.98 26.90	87.86 27.28	87.74 27.66	87.62[28.05] 92
93 88.94 27.19	88.82 27.58	88.70 27.97	28.57 28.351 98 1
94 89.89 27.48	89.77 27.87	89.65 28.27	89.53 28.66 94
95 90.85 27.78 96 91.81 28.07	90.73 28.17	90.60 28.57	90.48 28.96 95
96 91.81 28.07 97 92.76 28.36	91.68 28.47 92.64 28.76	91.56 28.87 92.51 29.17	91.43 29.27 96 92.38 29.57 97
98 93 72 28.65	93.59 29.06	02 46 20 47	92.3829.57 97 93.3329.88 98
99 94.67 28.94	94.55 29.36	94.42 29.77	94.29 30.18 99
100 95.63 29.24	95.50 29.65	94.42 29.77 95.37 30.07	95.24 30.49 100
Dep. Lat.	Dep Lat.	Dep. Lat.	Dep. Lat.
73 Deg.	723 Deg.	721 Deg.	
HIT DOS	12 DeRei	12 DeR	721 Deg   5
1	The same of	THE OWNER OF THE PERSON NAMED IN	

	Mark I Town	-	
= 18 Deg.	181 Deg.	181 Deg.	183 Deg. 0
Lar. Dep.	Lat. Dep.	Lat. Dep.	Lat. Dep. #
1 0.95 0.31	0.93 0.31	0.95 0.32	0.95 0.32 1 1.89 0.64 2
1 095 0.51 2 190 0.62 3 230 0.96 4 230 124 5 476 1.50 6 5.71 1.85 7 6.66 2.47 9 8.36 2.76	190 0.63 2.85 6.94 3.80 1.25 475 1.57	1.90 0.63 2.84 0.95	1.89 0.64 2
3 235 0.96 4 380 1.24	2.85 6.94* 3.80 1.25	2.84 0.95 3.79 1.27	2.84 0.96 3 3.79 1.39 4 4.73 1.61 5
5 476 1.50	475 1.57	474 1.50	4.73 1.61 5
6 5.71 1.85	5.70 1.88	5.69 1.90 6.64 2.22	5.68 1.93 6 8
7 6.66 2.16	6.65 4.19	6.64 2.22	6.63 2.25 7
8 7.61 247	7.60 2.51	7.59 2.54 8.53 2.86	7.58 2.57 8
	8.55 282	8.53 2.86 9.48 3.17	8.52 2.89 9 9.47 3.21 10
10 9.51 3.09	9.50 3.13	9740 3717	ACCOUNT DESCRIPTION AND ADDRESS.
13 10.40 3.40 13 11.41 3.71	1045 344 1140 376	10.43 3.49 11.38 3.81	10.42 3.54 11 11.36 3.85 12
131236 4.02	12:35 4:07	1233 4.12	12.31 4.18 13 1
14 13:31 4:33	13-30 4.38	13:28 4.44	13.26 4.50 14
15 14-27 4.64	14.25 4.70	14.22 4.76	14:20 4.82 15
	15:20 5.01	15.17 5.08	15.15 5.14 16
17 16.17 5.25 18 17.12 5.56	16.14 5.32 17.09 5.64	10:12 3.39	16.10 5.46 17
18 17.12 5.56 19 18.07 5.87	18.04 5.95	18.02 6.03	17.04 5.79 18 17.99 6.11 19
2 19.02 6.18	18.99 6.26	18.97 6.35	18.94 6.43 20
21 19.97 6.49,	19.94 6.58	19.91 0.66	10 80 675 01
22 20.92 6.80	20.89 6.89	20.86 6.98	20.83 7.07 22
2, 21, 87 7,11	21.84 7.20	21.81 7.30	20.83 7.07 22 21.78 7.39 23 22.73 7.71 24
24 22.83 7.42 25 23.78 7.73	22.79 7.52	22.76 7.62	20.83 7.07 22 21.78 7.39 23 22.73 7.71 24
25 23.78 7.73	23.74 7.83 24.69 8.14	23.71 7.93	23.07 8.04 25 1
26 24.73 8.93 27 25.68 8.34	24.69 8.14 25.64 8.46	24.66 8.25 25.60 8.57	24.62 8.36 26 25.57 8.68 27
98 96 65 865	26.59 8.77	26.55 8.88	26.51 9.00 28
29 27.58 8.96	27.54 9.08	27.50 9.20	27.46 9.32 29
30 28.53 9.27	28.49 9.39	28.45 9,52	27.46 9.32 29 28.41 9.64 30
31 29.48 9.58	29.44 9.71	29.40 9.84	29.35 9.96 31
32 30.4 9.89	30.39 10.02	30.35 10.15	30,30 10.29 32
33 31.38 10.20	31.34 10.33 32.29 10.65	31.29 10.47 32.24 10.79	\$1.25 10.61 33 32.20 10.93 34
34 32.84 10.51 35 33.29 10.82	33.24 10.96	33.19 11.11	32.20 10.93 34 33.14 11.25 35
36 34.24 11.12	34.19 11.27		34.09 11.57 36
37 85.19 11.43	35.14 11.59	34.14 11.42 35.09 11.74	35.04 11.89 37
38 35.14 11.74	36.09 11.90	36.04 12.06	35.98 12.21 38
39 37.09 12.05	37.04 12.21	36.98 12.37	36.93 12.54 39
40 38.04 12.36	37.99 12.53	37.93 12.69	37.88 12.86 40 38.82 13.18 41
41 38.99 12.67	38.94 12.84 39.89 13.15	38.88 13.01 39.83 13.33	38.82 13.18 41
4239.9412.98 4340.9013.29	40.84 13.47	40.78 13.64	39.77 13.50 42 40.72 13.82 43
44 41.85 13.60	41.79 13.78	41.73 13.96	41.66 14.14 44
45 42.80 13.91	42.74 14.09	42.67 14.28	42.61 14.46 45
46 43.75 14.21	43.69 14.41	43.62 14.60 44.57 14.91	43.56 14.79 46
47 44.70 14.52	44.64 14.72	44.57 14.91	44.51 15.11 47
48 45.65 14.83 49 46.60 15.14	45.59 15.03 46.54 15.35	45.52 15.28 46.47 15.55	45.45 15.43 48 46.40 15.75 49
50 47.55 15.45	47.48 15.66	47.42 15.87	47.35 16.07 50
Dep Lat.	Dep Lat.	Dep. Lat.	Dep. Lat.
72 Deg.	712 Deg.		
File and	Il L torR.	711 Deg.	714 Deg   D

4	Service Control		
1 18 Deg.	181 Deg.	18 Deg.	183 Deg.   U
Lat.  Dep.	Lat. Dep.	Lat. Dep	Lat. Dep. 2
51 48.50 15.76	48.43 15.97	48.56 16.18	48.29 10.39 51
52 49.45 16.07	49.38 16.28	49.31 16.50	49.24 16.71 52
53 50.41 16.38	50.33 16.60	50.26 16.82	50.19 17.04 53
54 51.36 16.69	51.28 16.91	51.21 17.13	51.13 17.36 54
55 52.31 17.00 56 53.26 17.30	52.23 17.22 53.18 17.54	52.16 17.45	52.08 17.68 55 53.03 18.00 56
56 53.26 17.30 57 54.21 17.61	54.13 17.85	53.11 17.77 54.05 18.09	53.03 18.00 56 53.98 18.32 57
58 55.16 17.92	55.08 18.16	55.00 18.40	54.92 18.64 58
59 56.11 18.23	56.03 18.48	55.95 18.72	55.87 18.96 59
60 57.06 18.54	56.98 18.79	56.90 19.04	56.82 19.29 60
61 58.01 18.85	57.93 19.10	57.85 19.36	57.76 19.61 61
62 58.97 19.16	58.88 19.42	58.80 19.67	58.71 19.93 62
63 59.92 19.47	59.83 19.73	59.74 19.99	59.66 20.25 63
64 60.87 19.78	60.78 20.04	60.69 20.31	60.60 20.57 64
65 61.82 20.09 66 62.77 20.40	61.73 20.36 62.68 20.67	61.64.20.62 62.59.20.94	61.55 20.89 65 62.50 21.22 66
67 63.72 20.70	63.63 20.98	63.54 21.26	62.50 21.22 66 63.44 21.54 67
68 64.67 21.01	64.58 21.30	64.49 21.58	64.39 21.86 68
69 65 62 21.32	65.53 21.61	65.43 21.89	65,34 22.18 69
70 66.57 21.63	66.48 21.92	66.38 22.21	66.29 22.50 70
71 67.53 21.94	67.43 22.23	67.33 22.53	67.23 22:82 71
72 68 48 22 25	68,38 22.55	68.28 22.85	68:18 23.14 72
73 69 43 22.56	69.33 22.86	69.23 23.16	69.13 23.47 73
74 70.38 22.87	70.28 23.17	70.18 23.48	70.07 23.79 74
75 71.33 23.18 76 72.28 23.49	71.23 23.49 72.18 23.80	71.12 23.80 72.07 24.12	71.02 24.11 75 71.97 24.43 76
76 72.28 23.49 77 73.23 23.79	73.13 24 11	73.02 24.43	71.97 24.43 76 72.91 24.75 77
7874.1824.10	74.08 24.43	73.97 24.75	73.86 25.07 78
79 75.13 24.41	75.03 24.74	74.92 25.07	74.81 25.39 79
80 76.08 24.72	75.98 25.05	75.87 25.38	75.75 25.72 80
81 77.04 25.03	76.93 25.37	76.81 25.70	76.70 26.04 81
82 77.99 25.34	77.88 25.68	77.76 26.02	77.65 26.36 82
83 78.94 25.65	78.83 25,99	78.71 26,34	78.60 26.68 83
84 79.89 25.96	79.77 26.31	79.66 26.65	79.54 27.00 84 80.49 27.32 85
85 80.84 26.27 86 81.79 26.58	80.72 26.62 81.67 26.93	80.61 26.97 81.56 27.29	80.49 27.32 85 81.44 27.64 86
87 82.74 96.88	82.62 27.25	82.50 27.61	82.38 27.97 87
88 83.69 27.19	83.57 27.56	83.45 27.92	83.33 28.29 88
89 84.64 27.50	84.52 27.87	84.40 28.24	84.28 28.61 89
90 85.60 27.81	85.47 28.18	85.35 28.56	85.22 28,93 90
91 86.55 28.12	86.42 28.50	86.30 28.87	86.17 29.25 91
92 87-50 28.43	87.37 28.81	87.25 29.19	87.12 29.57 92
93 88.45 28.74 94 89.40 29.05	88.32 29.12	88.19 29.51 89.14 29.83	88.06 29.89 93
94 89.40 29.05 95 90.35 29.36	89.27 29.44 90.22 29.75	89.14 29.83 90.09 30.14	89.01 30.22 94 89.96 30.54 95
96 91.30 29.67	91.17 30.06	91.04 30.46	90.91 30.86 96
97 92.25 29.97	92.12 30.38	91.99 30.78	91.85 31.18 97
98 93.20 30.28	93.07 30.69	92.94 31.10	92.80 31.50 98
99 94.15 30.59	94.02 31.00	93.88 31.41	93.75 31.82 99
100 95.11 30.90	94.97 31.32	94.83 31.73	94.69 32 14 100
Dep. Lat	Dep. Lat.	Dep. Lat.	Dep. Lat.
72 Deg.	714 Deg	711 Deg.	711 Deg
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		Control of the Contro			g
1	U 19 Deg 1	191 Deg.	19 Deg.	193 Deg   -	
И	Lat. Dep.	Lat. Dep.	Lat. Dep.	Lat. Dep.	
п	1 0.95 0.33	0.94 0.33	0.94 0.33	0.94 0.34 1	
н	2 1.89 0.65	1.89 0.66	1.89 0.67	1.88 0.68 2.	
И	3 2.84 0.98	2.83 0.99	2.83 1.00	2.82 1.01 3	ı
П	4 3.78 1.30 5 4.73 1.63 6 5.67 1.95 7 6.62 2.28	3.78 1.32	3.77 1.34	3.76 1.35 4	ı
И	5 4.73 1.63 6 5.67 1.95	4.72 1.65 5.66 1.98	4.71 1.67 5.66 2.00	4.71 1.69 5 5.65 2.03 6	ı
Н	7 6.62 2.28	6.61 2.31	6.60 2.34	6.59 2.37 7	ı
п	8 7.56 2.60	7.55 2.64	7.54 2.67	7.53 2.70 8	ı
п	9 8.51 2.93	8.50 2.97	8.48 3.00	8.47 3.04 9	ı
M	10 9.46 3.26	9.44 3.30	9.43 3.34	9.41 3.38 10	ı
ı	11 10.40 3.58	10.38 3.63	10.37 3.67	10:35 3.72 11	ı
ı	12 11.35 3.91 13 12.29 4.23	11.33 3.96	11.31 4.01	WINDS TOUGHT	ı
И	13 12.29 4.23 14 13.24 4.56	12.27 4.29 13.22 4.62	12.25 4.34 13.20 4.67	12.24 4.39 13 13.18 4.73 14	ı
н	15 14.18 4.88	14.16 4.95	14.14 5.01	14.12 5.07 15	ı
ı	16 15.13 5.21	15.11 5.28	15.08 5.34	15.06 5.41 16	ı
п	17 16.07 5.53	16.05 5.60	16.02 5.67	16.00 5.74 17	ı
H	18 17.02 5.86	16.99 5.93	16.97 6.01	16.94 6.08 18	ı
и	19 17.96 6.19	17.94 6.26	17.91 6.34	17.88 6.42 19 18.82 6.76 20	ı
u	20 18.91 6.51	18.88 6.59	18.85 6.68	Desiration of the last of the	ı
4	21 19.86 6.84 22 20.80 7.16	19.83 6.92 20.77 7.25	19:80 7:01 20:74 7:34	19.76 7.10 21 20.71 7.43 22	ı
1	22 20.80 7.16 23 21.75 7.49	20.77 7.25 21.71 7.58	21.68 7.68	21.65 7.77 23	ı
ı	24 22.69 7.81	22.66 7.91	22.62 8.01	22.59 8.11 24	ı
ı	25 23.64 8.14	23.60 8.24	23.57 8.35	23.53 8.45 25	ı
1	25 23.64 8.14 26 24.58 8.46 27 25.53 8.79	24.55 8.57	24.51 B.68	24.47 8.79 26	ı
1	27 25.53 8.79	25.49 8.90	25.45 9.01	25.41 9.12 27	ı
1	28 36.47 9.12 29 27.42 9.44	26.43 9.23 27.38 9.56	26.39 9.35 27.34 9.68	26.35 9.46 28 27.29 9.80 29	ı
п	30 28.37 9.77	27.38 9.56 28.52 9.89	28.28 10.01	28.24 10.14 30	ı
4	28 36.47 9.12 29 27.42 9.44 30 38.37 9.77 31 29.31 10.09	29.27 10.22	29.22 10.35	29.18 10.48 31	ı
ı	32 30.26 10.42	30.21 10.55	30.16 10.68	30.12 10.81 32	ı
١	33 31.20 10.74	31.15 10.88	31.11 11.02	31.06 11.15 33	ı
1	3432.1511.07	32.10 11.21	32.05 11.35	32.00 11.49 34	ı
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ı	36 34.04 11.72 37 34.98 12.05	33.99 11.87 34.93 12.20	33.94 12.02 34.88 12.35	33.88 12.17 36 34.82 12.50 37	1
и	S8 35.93 12.37	35.88 12.53		35.76 12.84 38	ı
ı	39 36.88 12.70	36.82 12.86	35.82 12.68 36.76 13.02	36.71 13.18 39	ı
J	40 37.82 13.02	37.76 13.19	37.71 13.35	37.65 13.52 40	
1	41 38.77 13.35	38.71 13.52	38.65 13.69	38.59 13.85 41	I
1	42 39.71 13.67	39.65 13.85	39.59 14.02	39.53 14.19 42	
1	43 40.66 14.00	40.60 14.18	40.53 14.35	40.47 14.53 43	1
	44 41.60 14.32 45 42.55 14.65	41.54 14.51	41.48 14.69 42.42 15.02	41.41 14.87 44 42.35 15.21 45	1
1	45 42.55 14.65 46 43.49 14.98	42.48 14.84 43.43 15.17	42.42 15.02	42.35 15.21 45 43.29 15.54 46	
	47 44.44 15.30	44.37 15.50	44.30 15.69	44.24 15.88 47	
	48 45.38 15.63	45.32 15.83	45.25 16.02	45.18 16.22 48	ŀ
	49 46.33 15.95	46.26 16.15	46.19 16.36	46.1216.56 49 47.0616.90 50	ı
	50 47.28 16.28	47.20 16.48	47.13 16.69		
	Dep. Lat.	Dep. Lat.	Dep. Lat.	Dep. Lat.	
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U 19 Deg.	191 Deg	191 Deg.	194 Deg.   D	
Lat. Dep.	Lat.  Dep.	Lat. Dep.		
	-		Section State of School	١
51 48.22 16.60	48.15 16.81	48.07 17.02	48.00 17.23 51	
52 49.17 16.93	49.09 17.14	49.02 17.36	48.94 17.57 52	ı
53 50.11 17.26	50.04 17.47	49.96 17.69	49.88 17.91 53	ı
54 51.06 17.58	50.98 17.80	50.90 18.03	50.82 18.25 54	ı
55 52.00 17.91	51.92 18.13	51,85 18.36	51.76 18.59 55	ı
56 52.95 18.23	52.87 18.46	52.79 18.69	52.71 18.92 56	ı
57 53.89 18.56	53.81 18.79	53.73 19.03	53.65 19.26 57	ı
58 54.84 18.88	54.76 19.12	54.67 19.36	54.59 19.60 58	ı
59 55.79 19.21	55.70 19.45	55.62 19.69	55.53 19.94 59	ı
60 56.73 19.53	56.65 19.78	56.56 20.03	56.47 20.27 60	ı
61 57.68 19.86	57.59 20.11	57.50 20.36	57.41 20.61 61	ı
62 58.62 20.19 63 59.57 20.51	58.53 20.44 59.48 20.77	58.44 20.70	58.35 20.95 62	ı
63 59.57 20.51	59.48 20.77	59.39 21.03	59.29 21.29 63	ı
64 60.51 20.84	60.42 21.10.	60.33 21.36	60.24 21.63 64	ı
65 61.46 21.16	61.37 21.43	61.27 21.70	61.18 21.96 65	ı
66 62.40 21.49	62.31 21.76	62.21 22.03	62.12 22.30 66	
67 63.35 21.81	63.25 22.09	63.16 22.37	63.06 22.64 67	
68 64.30 22.14	64.20 22.42	64.10 22.70	64.00 22,98 68	ı
69 65.24 22.46	65.14 22.75	65.04 23.03	64.94 23.32 69	ı
70 66.19 22.79	66.09 23.08	65.98 28.37	65.88 23.65 70	ı
71 67.13 23.12	67.03 23.41	66.93 23.70	66.82 23.99 71	ı
72 68.08 23.44	67.97 23.74	67.87 24.03	67.76 24.33 72	a
73 69.02 23.77	68.92 24.07	68.81 24.37	68.71 24.67 73	ı
74 69.97 24.09	69.86 24.40	69.76 24.70	69.65 25.01 74	ı
75 70.91 24.42	70.81 24.73	70.70 25.04	70.59 25.34 75	ı
THE RESIDENCE OF THE PARTY OF T	71.75 25.06	71.64 25.37	71.53 25.68 76	ı
AND REAL PROPERTY AND ADDRESS OF THE PARTY AND	72.69 25.39	72.58 25.70		ı
	73.64 25.72	73.53 26.04		ı
	74.58 26.05		73.41 26.36 78 74.35 26.70 79	ı
79 74.70 25.72 80 75.64 26.05	75.53 26.38	74.47 26.37 75.41 26.70	75.29 27.03 80	ı
	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN			ı
81 76.59 26.37	76.47 26.70	76.35 27.04	76.24 27.37 81	П
82 77.53 26.70	77.42 27.03	77.30 27.37	77.18 27.71 82	ı
83 78.48 27.02	78.36 27.36	78.24 27.71	78.12 28.05 83	А
84 79.42 27.35 85 80.37 27.67	79.30 27.69	79.18 28.04	79.06 28.39 84	ı
85 80.37 27.67	80.25 28.02	80.12 28.37	80.00 28.72 85	ı
86 81.31 28.00	81.19 28.35	81.07 28.71	80.94 29.06 86	ı
87 82.26 28.32	82.14 28.68	82.01 29.04	81.88 29.40 87	ı
88 83.21 28.65	83.08 29.01	82.95 29.37	82.82 29.74 88	ı
89 84.15 28.98	84.02 29.34	83.90 29.71	83.76 30.07 89	ı
90 85.10 29.30	84.97 29.67	84.84 30.04	84.71 30.41 90	H
91 86.04 29.63	85.91 30.00	85.78 30.38	85.65 30.75 91	ı
92 86.99 29.95	86.86 30.33	86.72 30.71	86.59 31.09 92	I
93 87.93 30.28	87.80 30 66	87.67 31.04	87.53 31.43 93	۱
94 83.88 30.60	88.74 30.99	88.61 31.38	88.47 31.76 94	
95 89.82 30.93	89.69 31.32	89.55 31.71	89.41 32.10 95	I
96 90.77 31.25	90.63 31.65	90.49 32.05	90.35 32.44 96	
97 91.72 31.58	91.58 31.98	91.44 32.38	91.30 32.78 97	I
98 92.66 31.91	92.52 32.31	92.38 32.71	92.24 33.12 98	1
99 93.61 32.23	93.46 32.64	93.32 33.05	93.18 33.45 99	I
100 94.55 32.56	94.41 32.97	94.26 33.38	94.12 33.89 100	H
Dep Lat.	Dep. Lat.	Dep. Lat.	Dep. Lat.	I
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5 71 Deg.	701 Deg.	701 Deg.	701 Deg.   D	I

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0 20 Deg.	201 Deg 1	20 Deg 1	204 Deg 💆
# Lat. Dep.	Lat. Dep.	Lat Dep.	Lat. Dep. 2
1 0.94 0.34	0.94 0.35	0.94 0.35	0.94 0.35 1
1 0.94 0.34 2 1.88 0.68 3 2.82 1.03 4 3.76 1.37 5 4.70 1.71 6 5.64 2.05 7 6.58 2.39 8 7.52 2.74	1.88 0.69	1.87 0.70	187 0.71 2
3 2.82 1.03	2.81 1.04	2.81 1.05	2.81 1.06 3 3.74 1.42 4
4 3.76 1.37 5 4.70 1.71	3.75 1.38 4.69 1.73	3.75 1.40 4.68 1.75	3.74 1.44 4 4.68 1.77 5
6 5.64 2.05	5.63 2.48	5.62 2.10	5.61 2.13 0
7 6.58 2.39	5.57 2.42	6.56 2.45	6.55 2.48 7
	7.51 2.77	7.49 2.80	7.48 2.83 8
9 8 46 5.08	8.44 3.12	8.43 3.15	8.42 3.19 9 9.35 3.54 10
10 9.40 3.42	9.38 3.46	9.37 3.50	The second second
11 10.34 3.76 10 11.28 4.10	10.32 3.81	10.30 3.85 11.24 4.20	10.29 3.90 11 11.22 4.25 12
1612-22 4.45	1320 4.50	12.18 4.55	12.16 4.61 13
14 13.16 4.79	13.13 4.85	13.11 4.90	13.09 4.96 14
15 14.10 5.13	14.07 5.19	14.05 5.25	14-03 5.31 15
16 15.04 5.47	15.01 5.54	14.99 5.60	14.96 5.67 16
17 15.97 5.81 18 16.91 6.16	15.95 5.88 16.89 6.23	15.92 5.95 16.86 6.30	15.90 6.02 17 16.83 6.38 18
18 16.91 6.16 19 17.85 6.50	16.89 6.23 17.83 6.58	17.80 6.65	16.83 6.38 18 17.77 6.73 19
20 18.79 6.84	18.76 6.92	18.73 7.00	18.70 7.09 20 [
21 19 73 7 18	19.70 7:27	19.67 7.35	19.64 7.44 21
22 20.67 7.52	20.64 7.61	30.61 7.70	20.57 7.79 22
23 21 61 7 87	21.58 7.96	21.54 8,05	21.51 8.15 23
24 22.55 8.21	22.52 8.31	22.48 8.40	22.44 8.50 24
25 23.49 8.55 26 24.43 8.89	23.45 8.65 24.39 9.00	23.42 8.76 24.35 9.11	23.38 8.86 25 24.31 9.21 26
26 24.43 8.89 27 25.57 9.23	25.33 9.35	25.29 9.46	24.31 9.21 26 25,25 9.57 27
28 26.31 9.58	26.27 9.69	26.23 9.81	26.18 9.92 28
29 27.25 9.92	27.21 10.04	27.16 10.16	27.12 10.27 29
.30 28.19 10.26	28.15 10.38	28.10 10.51	28.05 10.63 30
31 29:13 10:60	29.08 10.73	29.04 10.86	28.99 10.98 31
32 30.07 10.94	30.02 11.08	29.97 11.21 30.91 11.56	29.92 11.34 32
33 31.01 11.29 34 31.95 11.63	30.96 11.42 31.90 11.77	31.85 11.91	30.86 11.69 33 31.79 12.05 34
35 32.89 11.97	32.84 12.11	32.78 12.26	32.73 12.40 35
36 33.83 12.31	33.77 12.46	33.72 12.61	33 66 12.75 36
37 34.77 12.65	34.71 12.81	34.66 12.96	34.60 13.11 37
38 35.71 13.00	35.65 18.15	35.59 13.31	35.54 13.46 38
39 36.65 13.34 40 37.59 13.68	36.59 13.50 37.53 13.84	36.53 13.66	36.47 13.82 39 37.41 14.17 40
THE RESERVE AND DESCRIPTION OF THE PERSON NAMED IN		37.47 14.01 38.40 14.36	and the latest terminal termin
41 38 53 14.02 42 39.47 14.36	38.47 14.19 39.40 14.54	39.34 14.71	38.34 14.53 41 39.28 14.88 42
48 40.41 14.71	40.3414.88	40.28 15.06	40.21 15.23 43
44 41 35 15.05	41.28 15.23	41.21 15.41	41.15 15.59 44
45 42.29 15.39	42.22 15.58	42.15 15.76	42.08 15.94 45
46 43.23 15.73	43.16.15.92	43.09 16.11	43.03 16.30 46
47 44.17 16.07 48 45.11 16.42	44.09 16.27 45.03 16.61	44.02 16.46	43.95 16.65 47 44.89 17.01 48
49 46.04 16.76	45.97 16.96	45.90 17.16	45.82 17.36 49
50 46.98 17 10	46.91 17.31	46.83 17.51	46.76 17.71 50
Dep. Lat.	Dep. Lat.	Dep. Lat.	Dep Lac.
0 70 Deg.	693 Deg.	694 Dec.	591 Deg. 5
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D 20 Deg.	201 Deg	201 Deg.	203 Deg.   D	1
Lat. Dep.	Lat. Dep.	Lat.  Dep.	Lat. Dep. 5	1
51 47.92 17.44	47.85 17.65	47.77 17.86	47.69 18.07 51	П
52 48.86 17.79	48.79 18.00	48.71 18.21	48.63 18.42 52	ı
53 49.80 18.13	49.72 18.34	49.64 18.56	49.56 18.78 53	I
54 50.74 18.47 55 51.68 18.81	50.66 18.69 51.60 19.04	50.58 18.91 51.52 19.26	50.50 19.13 54 51.43 19.49 55	П
56 52.62 19.15	52.54 19.38	52.45 19.61	51.43 19.49 55 52.37 19.84 56	1
57 53.56 19.50	53.48 19.73	53.39 19.96	53.30 20.19 57	П
58 54.50 19.84	54.42 20.07	54.33 20.31 55.26 20.66	54.24 20.55 58	n
59 55.44 20.18	55.35 20.42		55.17 20.90 59	
60 56.38 20.52	56.29 20.77	56.20 21.01	56.11 21.26 60	П
61 57.32 20.86	57.23 21.11	57.14 21.36	57.04 21.61 61	Ц
62 58.26 21.21	58.17 21.46	58.07 21.71	57.98 21.97 62	'n
63 59.20 21.55 64 60.14 21.89	59.11 21.81 60.04 22.15	59.01 22.06 59.95 22.41	58.91 22.32 63 59.85 22.67 64	П
65 61.08 22.23	60.98 22.50	60.88 22.76	60.78 23.03 65	Н
66 62.02 22.57	61.92 22.84	61.82 23.11	61.72 23.38 66	И
67 62.96 22.92	62.86 23.19	62.76 23.46	62.65 23.74 67	Н
68 63.90 23.26	63.80 23.54	63.69 23.81	63.59 24.09 68	ı
69 64.84 23.60	64.74 23.88	64.63 24.16	64.52 24.45 69	Н
70 65.78 23.94	65.67 24.23	65.57 24.51	65.46 24.80 70	Ш
71 66.72 24.28	66,61 24.57	66.50 24.86	66.39 25.15 71	Н
72 67.66 24.63	67.55 24.92 68.49 25.27	67.44 25.21 68.38 25.57	67.33 25.51 72 68.26 25.86 73	н
74 69.54 25.31	69.43 25.61	69.31 25.92	68.26 25.86 73 69.20 26.22 74	H
75 70.48 25.65	70.36 25.96	70.25 26.27	70.14 26.57 75	Ш
76 71.42 25.99	71.30 26.30	71.19 26.62	71.07 26.93 76	Ц
77 72.36 26.34	72.24 26.65	72.12 26.97	72.01 27.28 77	П
78 73.30 26.68	73.18 27.00	73.06 27.32	72.94 27.63 78	П
79 74.24 27.02   80 75.18 27.36	74.12 27.34 75.06 27.69	74.00 27.67 74.93 28.02	73.88 27.99 79 74.81 28.34 80	П
Designation of the last of the			The real Property lies	u
81 76.12 27.70 82 77.05 28.05	75.99 28.04 76.93 28.38	75.87 28.37 76.81 28.72	75.75 28.70 81 76.68 29.05 82	1
83 77.99 28.39	77.87 28.73	77.74 29.07	77.62 29.41 83	ı
84 78 93 28 73		78.68 29.42	78.55 29.76 84	I
85 79.87 29.07	78.81 29.07 79.75 29.42	79.62 29.77	79.49 30.11 85	И
86[80.81]29.41	80.68 29.77	80.55 30.12	80.42 30.47 86	П
87 81.75 29.76	81.62 30.11	81.49 30.47	81.36 30.82 87 82.29 31.18 88	
88 82.69 30.10 89 83.63 30.44	82.56 30.46 83.50 30.80	82.43 30.82 83.36 31.17	82.29 31.18 88 83.23 31.53 89	1
90 84.57 30.78	84.44 31.15	84.30 31.52	84.16 31.89 90	
91 85.51 31.12	85.38 31.50	85.24 31.87	85.10 32.24 91	1
92 86.45 31.47	86.31 31.84	86.17 32.22	86.03 32.59 92	1
93 87.39 31.81	87.25 32.19	87.11 32.57	86.97 32.95 93	
94 88.33 32.15	88.19 32.54	88.05 32.92	87.90 33.30 94	1
95 89.27 32.49	89.13 32.88	88.98 33.27	88.84 33.66 95	1
96 90.21 32.83 97 91.15 33.18	90.07 33.23 91.00 33.57	89.92 33.62 90.86 33.97	89.77 34.01 96 90.71 34.37 97	
98 92.09 33.52	91.00 33.57	91.79 34.32	91.64 34.72 98	-
99 93.03 33.86	92.88 34.27	92.73 34.67	92.58 35.07 99	
100 93.97 34.20	93.82 34.61	93.67 35.02	93.51 35.43 100	1
Dep. Lat.	Dep. Lat.	Dep. Lat.	Dep Lat.	
70 Deg.	694 Deg	691 Deg.	691 Deg 5	1
C	3 20 6	4 2. 1	1 2001	4

TRAVERSE TREEL.			
D22 Deg.	221 Deg.	221 Deg	223 Deg. 0
1.21. Dep.	Lat. Dep.	Lat. Dep.	Lat Dep.
1 0.93 0.37	0.93 0.38	0.92 0.38	0.92 039 1
	1.85 0.76	1.85 0.77	1.84 0.77 2
3 2.78 1.12	2.78 1.14	2.77 1.15	2.77 1.61 3
4 3.71 1.50	3.70 1.51	3.70 1.53	3.69 1.55 4
5 4.64 1.87	4.63 1.89	4.62 1.91	4.61 1.93 5
6 5.56 2.25 7 6.49 2.62	5.55 2.27	5.54 2.30 6.47 2.68	5.53 2.32 6 6.46 2.71 7
8 7.42 3.00	6.48 2.65 7.40 3.03	7.39 3.06	6.46 2.71 7 7.38 3.09 8
9 8.34 3.37	8.33 3.41	8.31 3.44	8.30 3.48 9
10 9.27 3.75	9.26 3.79	9.24 3.83	9.22 3.87 10
11 10.20 4.12	10.18 4.17	10.16 4.21	10.14 4.25 11
12 11.13 4.50	11.11 4.54	11.09 4.59	11.07 4.64 12
13 12.05 4.87	12.03 4.92	12.01 4.97	11.99 5.03 13
14 12.98 5.24	12.96 5.50	12.93 5.36	12.91 5.41 14
15 13.91 5.62	13.88 5.68	13.86 5.74	13.83 5.80 15
16 14.83 5.99 17 15.76 6.37	14.81 6.06 15.73 6.44	14.78 6.12 15.71 6.51	14.76 6.19 16 15.68 6.57 17
18 16.69 6.74	16.66 6.82	16.63 6.89	16.60 6.96 18
19 17.62 7.12	17.59 7.19	17.55 7.27	17.52 7.35 19
20 18.54 7.49	18.51 7.57	18.48 7.65	18.44 7.73 20
21 19.47 7.87	19.44 7.95	19.40 8.04	19.37 8.12 21
22 20.40 8.24	20.36 8.33	20.33 8.42	20.29 8.51 22
23 21.33 8.62	21.29 8.71	21.25 8.80	21.21 8.89 23
24 22.25 8.99	22.21 9.09	22.17 9.18	22.13 9.28 24
25 23.18 9.37	23.14 9.47	23.10 9.57	23.06 9.67 25
26 24.11 9.74 27 25.03 10.11	24.06 9.84   24.99 10.22	24.02 9.95 24.94 10.33	23.98 10.05 26 24.90 10.44 27
28 25.96 10.49	25.92 10.60	25.87 10.72	25.82 10.83 28
29 26.89 10.86	26.84 10.98	26.79 11.10	26.74 11.21 29
30 27.82 11.24	27.77 11.36	27.72 11.48	27.67 11.60 30
31 28.74 11.61	28.69 11.74	28.64 11.86	28.59 11.99 31
32 29.67 11.99	29.62 12.12	29.56 12.25	29.51 12.37 32
33 30.60 12.36	30.54 12.50	30.49 12.63	30.43 12.76 33
34 31.52 12.74	31.47 12.87	31.41 13.01	31.35 13.15 34
35 32.45 13.11	32.39 13.25 33.32 13.63	32.34 13.39 I 33.26 13.78	32.28 13.53 35 33.20 13.92 36
36 33.38 13.49 37 34.31 13.86	34.24 14.01	34.18 14.16	33.20 13.92  36 34.12 14.31  37
38 35.23 14.24	35.17 14.39	35.11 14.54	
39 36.16 14.61	36.10 14.77	36.03 14.92	35.97 15.08 39
40 37.09 14.98	37.02 15.15	36.96 15.31	36.89 15.47 40
41 38.01 15.36	37.95 15.52	37.88 15.69	37.81 15.86 41
42 58.94 15.73	38.87 15.90	38.80 16.07	38.73 16.24 42
43 39.87 16.11	39.80 16.28	39.73 16.46	39.65 16.63 43
44 40.80 16.48	40.72 16.66	40.65 16.84	40.58 17.02 44
45 41.72 16.86	41.65 17.04 42.57 17.42	41.57 17.22 42.50 17.60	41.50 17.40 45 42.42 17.79 46
46 42.65 17.23 47 43 58 17.61	43.50 17.80	43.42 17.99	43.34 18.18 47
48 44.50 17.98	44.43 18.18	44.35 18.37	44.27 18.56 48
49 45 43 18 36	45.35 18.55	45.27 18.75	45.19 18.95 49
50 46.36 18.73	46.28 18.93	46.19 19.13	
Dep. Lat.	Dep. Lat.	Dep. Lat.	Dep Lat.
68 Deg.	67 Deg		671 Deg   0
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□ 22 Deg.	221 Deg.	221 Deg.	223 Deg. U
Lat.  Dep.	Lat. Dep.	Lat  Dep	Lat. Dep.
51 47.29 19.10	47.20 19.31	47.12 19.52	Responsibilities formationed formation
52 48.21 19.48	48.13 19.69	48.04 19.90	ALL MAN AND AND AND AND AND AND AND AND AND A
53 49.14 19.85	49.05 20.07	48.97 20.28	47.95 20.11 52 48.88 20.50 53
54 50.07 20.23	49.98 20.45	49.89 20.66	49.80 20.88 54
55 51.00 20.60	50.90 20.83	50.81 21.05	50.72 21.27 55
56 51.92 20.98	51.83 21.20	51.74 21.43	51.64 21.66 56
57 52.85 21.35	52.76 21.58	52.66 21.81	52.57 22.04 57
58 53.78 21.73	53.68 21.96	53.59 22.20	53.49 22.43 58
59 54.70 22.10	54.61 22.34	54.51 22.58	54.41 22.82 59
60 55.63 22.48	55.53 22.72	55.43 22.96	55.33 23.20 60
61 56,56 22.85	56.47 23.10	56.36 23.34	56.25 23.59 61
62 57.49 23.23	57.38 23.48	57.28 23.73	57.18 23.98 62
63 58.41 23.60 64 59.34 23.97	58.31 23.85	58.20 24.11	58.10 34.36 63
65 60.27 24.35	59.23 24.23 60.16 24.61	59.13 24.49 60.05 24.87	59.02 24.75 64 59.94 25.14 65
66 61.19 24.79	61.09 24.99	60.98 25.26	60.87 25.52 66
66 61.19 24.72 67 62.12 25.10	62.01 25.37	61.90 25.64	61.79 25.91 67
68 63.05 25.47	62.94 25.75	62.82 26.02	62.71 26.30 68
69 63.98 25.85	63.86 26.13	63.75 26.41	
69 63.98 25.85 70 64.90 26.22	64.79 26.51	64.67 26.79	63.63 26.68 69 64.55 27.07 70
71 65.83 26.60	65.71 26.88	65.60 27.17	65.48 27.46 71
72 66.76 26.97	66.64 27.26	66.52 27.55	66.40 27.84 72
73 67.68 27.35	67.56 27.64	67.44 27.94	67.32 28.23 73
74 68.61 27.72	68.49 28.02	68.37 28.32	68.24 28.62 74
75 69.54 28.10	69.42 28.40	69.29 28.70	69.17 29.00 75
76 70.47 28.47	70.34 28.78	70.21 29.08	70.09 29.39 76
77 71.39 28.84	71.27 29.16	71.14 29.47	71.01 29:78 77
78 72.32 29.22	72.19 29.53 73.12 29.91	72.06 29.85 72.99 30.23	71.93 30.16 78 72.85 30.55 79
79 73.25 29.59 80 74.17 29.97	74.04 30.29	73.91 30.61	73.78 30.94 80
81 75.10 30.34	74.97 30.67	74.83 31.00	74.70 31.32 81
8276.0330.72	75.89 31.05	75.76 31.38	75.62 31.71 82
83 76.96 31.09	76.82 31.43	76.68 31.76	76.54 32.10 83
84 77.88 31.47	77.75 31.81	77.61 32.15	77.46 32.48 84
85 78.81 31.84		78.53 32.53	78.39 32.87 85
86 79.74 32.22	78.67 32.19 79.60 32.56	79.45 32.91	79.31 33.26 86
87 80.66 32.59	80.52 32.94	80.38 33.29	80.23 33.64 87
88 81.59 32.97	81.45 33.32	81.30 33.68	81.15 34.03 88
89 82.52 33.34 90 83.45 33.71	82.37 33.70	82.23 34.06	82.08 34.42 89
90 83.45 33.71	83.30 34.08	83.15 34.44	83.00 34.80 90
91 84.37 34.09	84.22 34.46	84.07 34.82	83.92 35.19 91
92 85.30 34.46	85.15 34.84	85.00 35.21	84.84 35.58 92
93 86.23 34.84	86.08 35.21	85.92 35.59	85.76 35.96 93 86.69 36.35 94
94 87.16 35.21 95 88.08 35.59	87.00 35.59	86.84 35.97	86.69 36.35 94 87.61 36.74 95
96 89.01 35.96	87.93 35.97 88.85 36.35	87.77 36.35 88.69 36.74	88.53 37.12 96
97 89.94 36.34	89.78 36.73	89.62 37.12	89.45 37.51 97
98 90.86 36.71	90.70 37.11	90.54 37.50	90.5837.90 98
99 91.79 37.09	91.63 37.49		91.30 38.28 99
100 92.72 37.46	92.55 37.86	91.46 37.89 92.39 38.27	92.22 38.67 100
Dep. Lat	Dep. Lat.	Dep. Lat.	Dep. Lat.
68 Deg.	674 Deg.	671 Deg.	67-1 Deg. 0
Fige Deg.	or 4 Tiek.	or poeg.	CLE TACRIE
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Dep   233   Deg   233   Deg   233   Deg   233   Deg   234   Deg   234   Deg   234   Deg   234   Deg   234   Deg   240   Deg			_	
1 0.92	D 23 Deg	231 Deg.	231 Deg. 1	233 Deg. 5
1	Lat. Dep.	Lat. Dep.	Lat.  Dep.	Lat. Dep. "
4   3.68   1.56   3.68   1.58   3.67   1.59   3.66   1.61   4				
4   3.68   1.56   3.68   1.58   3.67   1.59   3.66   1.61   4	2 1.84 0.78		1.83 0.80	1.83 0.81 2
6 5.52 2.34 5.51 2.37 5.50 2.39 5.49 2.42 6 8 7.36 3.13 7.55 3.16 7.34 3.19 7.32 3.22 8 9 8.28 3.52 8.27 3.55 8.25 3.59 8.24 3.62 9 10 9.20 3.91 9.19 3.95 9.17 3.99 9.15 4.03 10 11 10.13 4.30 10.11 4.34 11.00 4.78 10.98 4.83 12 13 11.97 5.08 11.94 5.13 11.92 5.18 11.90 5.24 13 14 12.89 5.47 12.86 5.53 12.84 5.58 12.81 5.64 14 15 13.81 5.86 13.78 5.92 13.76 5.98 13.73 6.04 15 16 14.73 6.25 14.70 6.32 14.67 6.38 14.64 6.44 16 17 15.65 6.64 15.62 6.71 15.59 6.78 15.56 6.85 17 18 16.57 7.03 16.54 7.11 16.51 7.18 16.48 7.25 18 19 17.49 7.42 17.46 7.50 17.42 7.58 17.39 7.65 19 20 18.41 7.81 18.38 7.89 18.34 7.97 18.31 8.05 20 11 19.33 8.21 19.29 8.29 19.96 8.37 19.22 8.46 21. 22 20.25 8.60 20.21 8.68 20.18 8.77 20.14 8.86 22 23 21.17 8.99 21.13 9.08 21.09 9.17 21.05 9.26 23 24 22.09 9.38 22.05 9.47 22.01 9.57 21.97 9.67 24 25 23.95 10.16 23.89 10.26 23.84 10.37 23.80 10.47 25 26 23.95 10.16 23.89 10.26 23.84 10.37 24.71 10.87 27 24 25 23.95 10.16 23.89 10.26 23.84 10.37 24.71 10.87 27 24 25 25.13 28 25 24.81 10.66 24.76 10.77 24.71 10.87 27 28 25.77 10.94 25.73 11.05 -25.68 11.16 25.63 11.28 30 31 28.54 12.11 28.48 12.24 28.43 12.36 28.37 12.49 31 32 29.46 12.50 29.40 13.63 29.35 12.76 29.29 12.89 32 30 27.62 11.72 27.56 11.44 27.51 11.96 27.46 11.08 30 31 28.54 12.11 28.48 12.24 28.43 12.36 28.37 12.49 31 32 29.46 12.50 39.40 13.63 29.35 12.76 29.29 12.89 32 33 33.03 81 2.99 30.26 23.84 10.37 23.80 10.47 25 24.21 21.38 31.24 13.42 21.31 13.56 31.12 13.69 34 34 31.30 13.28 31.24 13.42 31.18 13.56 31.12 13.69 34 34 31.30 13.28 31.24 13.82 32.10 13.96 32.04 14.10 35 36 33.14 14.07 33.08 14.21 33.01 14.35 32.95 14.50 36 37 34.06 14.46 34.00 14.61 38.91 14.75 38.44 16.92 42 42 34.86 16.41 46 34.00 14.61 38.91 14.75 38.44 16.92 42 42 34.86 16.41 46 34.00 14.61 38.91 14.75 38.44 16.92 42 42 34.86 16.41 46 34.00 14.61 38.91 14.75 38.44 14.99 31 39.59 15.24 35.83 15.39 35.77 15.55 35.70 15.71 39 44 44.0.50 17.19 40.43 17.77 44.35 17.94 44.19 18.12 45 44 44.18 18.76 44.10 18.95 44.02 19.14 43.93 19.33 44 44 44.18 18.76 44.10				2.75 1.21 3
7 6.44 2.74 6.43 2.76 6.42 2.79 6.41 2.82 7 8 7.36 3.13 7.55 3.16 7.34 3.19 7.32 3.22 8 9 8 28 3.52 8.27 3.55 8.25 3.59 8.24 3.62 9 10 9.20 3.91 9.19 3.95 9.17 3.99 9.15 4.03 10 11 10.13 4.30 10.11 4.34 10.09 4.39 10.07 4.43 11 1211.05 4.69 11.03 4.74 11.00 4.78 10.98 4.83 12 1311.97 5.08 11.94 5.13 11.92 5.18 11.90 5.24 13 14 12.89 5.47 12.86 5.53 12.84 5.58 12.81 5.64 14 15 13.81 5.86 13.78 5.92 13.76 5.98 13.73 6.04 15 16 14.73 6.25 14.70 6.32 14.67 6.38 14.64 6.44 16 17 15.65 6.64 15.62 6.71 15.59 6.78 15.56 6.85 17 18 16.57 7.03 16.54 7.11 16.51 7.18 16.57 7.03 16.54 7.11 16.51 7.18 16.57 7.03 18.38 7.89 18.34 7.97 18.31 8.05 20 18.41 7.81 18.38 7.89 18.34 7.97 18.31 8.05 20 12 119.33 8.21 19.29 8.29 19.26 8.37 19.22 8.46 21 22 20.25 8.60 20.21 8.68 20.18 8.77 20.14 8.86 22 22 21.17 8.99 21.13 9.08 21.09 9.17 21.05 9.26 23 24 22.09 9.38 22.05 9.47 22.01 9.57 21.07 9.67 24 25.23 01 9.77 22.97 9.87 22.93 9.97 22.38 10.07 25 27 24.85 10.55 24.81 10.66 24.76 10.77 24.71 10.87 27 26 23.95 10.16 23.89 10.26 23.84 10.37 23.80 10.47 26 23 29.26 6.91 1.33 26.64 11.45 26.59 11.56 26.54 11.68 29 36.69 11.33 26.64 11.45 26.59 11.56 26.54 11.68 29 37 34.04 14.07 33.08 14.21 33.01 3.28 31.29 15.06 32.51 12.96 27.46 12.08 30 27.62 11.72 27.56 11.84 27.51 11.96 27.46 12.08 30 27.62 11.72 27.56 11.84 27.51 11.96 27.46 12.08 30 30 27.62 11.72 37.56 11.84 27.51 11.96 27.46 12.08 30 30 30.96 15.64 34.94 14.85 33.94 14.97 33.89 14.93 33.30.38 12.89 30.32 13.03 30.26 13.16 30.21 13.29 33 34.98 14.85 34.91 15.00 34.85 15.15 34.78 15.30 38 34.98 14.85 34.91 15.00 34.85 15.15 34.78 15.30 38 34.98 14.85 34.91 15.00 34.85 15.15 34.78 15.30 38 34.98 14.85 34.91 15.00 34.85 15.15 34.78 15.30 38 34.98 14.85 34.91 15.00 34.85 15.15 34.78 15.30 38 34.98 14.85 34.91 15.00 34.85 15.15 34.78 15.30 38 34.98 14.85 34.91 15.00 34.85 15.15 34.78 15.30 38 34.98 14.85 34.91 15.00 34.85 15.15 34.78 15.30 38 34.98 14.85 34.91 15.00 34.85 15.15 34.78 15.30 38 34.98 14.85 34.91 15.00 34.85 15.15 34.78 15.30 38 34.98 14.85 34.91 15.00 34.85 15.15 34.7				
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8 7.36 3.13 7.35 3.16 7.34 3.19 7.32 3.22 8 9 9.20 3.91 9.19 3.95 9.17 3.99 9.15 4.03 10 11 10.13 4.30 10.11 4.34 10.09 4.39 10.07 4.43 11 12 11.05 4.69 11.03 4.74 11.00 4.78 10.98 4.83 12 13 11.97 5.08 11.94 5.13 11.92 5.18 11.90 5.24 13 14 12.89 5.47 12.86 5.53 12.84 5.58 12.81 5.64 14 15 13.81 5.86 13.78 5.92 13.76 5.98 13.73 6.04 15 16 14.73 6.25 14.70 6.32 14.67 6.38 14.64 6.44 16 17 15.65 6.64 15.62 6.71 15.59 6.78 15.56 6.85 17 18 16.57 7.03 16.54 7.11 16.51 7.18 16.57 7.03 16.54 7.11 16.51 7.18 16.47 7.42 17.46 7.50 17.42 7.58 17.39 7.65 19 19 19.33 8.21 19.29 8.29 19.26 8.37 19.22 8.46 21 22 20.25 8.60 20.21 8.68 20.18 8.77 20.14 8.86 22 23 21.17 8.99 21.13 9.08 21.09 9.17 21.05 9.26 23 24 22.09 9.38 22.05 9.47 22.01 9.57 21.97 9.67 24 25 23.01 9.77 22.97 9.87 22.93 9.97 22.88 10.07 25 28 25.77 10.94 25.73 11.05 -25.68 11.16 25.63 11.28 28 29 26.69 11.33 26.64 11.45 -26.59 11.56 26.54 11.68 29 27.48 10.50 20 27.48 10.66 24.76 10.77 24.71 10.87 27 28.25 7.71 0.94 25.73 11.05 -25.68 11.16 25.63 11.28 28 29 26.69 11.33 26.64 11.45 -26.59 11.56 26.54 11.68 29 33 30.38 12.89 30.32 13.03 30.26 13.16 30.21 13.29 33 34 31.30 13.28 31.24 13.42 31.18 13.56 31.12 13.69 34 35 32.22 13.68 32.16 13.82 32.10 13.96 32.04 14.10 37 33.89 14.91 30.91 32.95 14.50 34.93 14.95 34.93 14.97 34.93 14.95 34.93 14.97 34.93 14.95 34.93 14.95 34.93 14.95 34.93 14.95 34.93 14.95 34.93 14.95 34.93 14.95 35.83 15.39 35.77 15.55 35.70 15.71 34.93 14.94 33.93 15.64 34.93 14.95 34.93 14.95 34.93 14.95 34.93 14.95 34.93 14.95 34.93 14.95 34.93 14.95 34.93 14.95 34.93 14.95 34.93 14.95 34.93 14.95 34.93 14.95 34.93 14.95 34.93 14.95 34.93 14.95 34.93 14.95 34.93 14.95 34.93 14.95 34.93 14.95 34.93 14.95 34.93 14.95 34.93 14.95 34.93 14.95 34.93 14.95 34.93 14.95 34.93 14.95 34.93 14.95 34.93 14.95 34.93 14.95 34.93 14.95 34.93 14.95 34.93 14.95 34.93 14.95 34.93 14.95 34.93 14.95 34.93 14.95 34.93 14.95 34.93 14.95 34.93 14.95 34.93 14.95 34.93 14.95 34.93 14.95 34.93 14.95 34.93 14.95 34.93 14.95 34.93 14.95 34.93 14.95 34.93 14.95 34.93	7 6.44 2.74		6.42 2.79	6.41 2.82 7
10   9.20   3.91   9.19   3.95   9.17   3.99   9.15   4.03   10	8 7.36 3.13	7.35 3.16	7.34 3.19	7.32 3.22 8
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14   12.89   5.47   12.86   5.53   12.84   5.58   12.81   5.64   14   15   13.81   5.86   13.78   5.92   13.76   5.98   13.73   6.04   15   16   14.73   6.25   14.70   6.32   14.67   6.38   14.64   6.44   16   17   15.65   6.64   15.59   6.78   15.56   6.85   17   18   16.57   7.03   16.54   7.11   16.51   7.18   16.48   7.25   18   19   17.49   7.42   17.46   7.50   17.42   7.58   17.39   7.65   19   20   18.41   7.81   18.38   7.89   18.34   7.97   18.31   8.05   20   18.41   7.81   18.38   7.89   18.34   7.97   18.31   8.05   20   12.20   20.25   8.60   20.21   8.68   20.18   8.77   20.14   8.86   22   23   21.17   8.99   21.15   9.08   21.09   9.17   21.05   9.26   23   24   22.09   9.38   22.05   9.47   22.01   9.57   21.97   9.67   24   25   23.01   9.77   22.97   9.87   22.93   9.7   22.38   10.07   25   25   23.01   9.77   22.97   9.87   22.93   9.7   23.80   10.47   26   27   24.85   10.55   24.81   10.66   24.76   10.77   24.71   10.87   27   24.85   10.35   24.81   10.66   24.76   10.77   24.71   10.87   27   24.85   10.35   24.81   10.66   24.76   10.77   24.71   10.87   27   24.85   10.33   26.64   11.45   26.59   11.56   26.54   11.68   29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29   20.29				
15   13.81   5.86   13.78   5.92   13.76   5.98   13.73   6.04   15   16   14.73   6.25   14.70   6.32   14.67   6.38   14.64   6.44   16   17   15.65   6.64   15   15.65   6.78   15.56   6.85   17   18   16.57   7.03   16.54   7.11   16.51   7.18   16.57   7.03   18.38   7.89   18.34   7.97   18.31   8.05   20   20   18.41   7.81   18.38   7.89   18.34   7.97   18.31   8.05   20   20   18.41   7.81   19.29   8.29   19.26   8.37   19.22   8.46   21   22   20.25   8.60   20.21   8.68   20.18   8.77   20.14   8.86   22   20.25   8.60   20.21   8.68   20.19   9.17   21.05   9.26   23.93   20.19   9.38   22.09   9.37   22.09   9.37   22.09   9.37   22.09   9.37   22.09   9.37   22.09   9.37   22.09   9.37   22.38   10.07   25   23.93   10.16   23.89   10.26   23.84   10.37   23.80   10.47   25   27   24.81   10.66   24.76   10.77   25.63   11.28   29   23.669   11.33   26.64   11.45   26.59   11.56   26.54   11.68   29   27.56   11.96   27.46   12.08   30   27.62   11.72   27.56   11.84   27.51   11.96   27.46   12.08   30   27.62   11.73   27.96   11.84   27.51   11.96   27.46   12.08   30   27.62   11.33   28.44   12.13   28.44   12.13   28.94   29.29   12.89   32   33   30.38   12.89   30.32   13.03   30.26   13.16   30.21   13.29   33   34.31   30   13.28   31.24   13.42   31.18   13.56   31.12   13.69   34   34.91   44.60   34.00   14.61   33.93   14.75   33.87   14.90   37   34.06   14.46   34.00   14.61   33.93   14.75   33.87   14.90   37   34.06   14.46   34.00   14.61   33.93   14.75   33.87   14.90   37   34.06   14.46   34.00   14.61   33.93   14.75   34.78   15.30   38   34.98   14.85   35.93   15.59   36.68   15.59   36.61   16.11   40   41   37.74   16.02   37.67   16.18   37.60   16.35   37.53   16.51   41   41   37.74   16.02   37.67   16.18   37.60   16.35   37.53   16.51   41   41   37.74   16.02   37.67   16.18   37.60   16.35   37.53   16.51   41   41   41   41   41   41   41				
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П	59 53.90 24.00	53.79 24.23	53.69 24.47	53.58 24.70 59	И
ı	60 54.81 24.40	54.71 24.64	54.60 24.88	54.49 25.12 60	П
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	65 59.38 26.44	59.26 26.70	59.15 26.96	59.03 27.21 65	1
	66 60.29 26.84	60.18 27.11	60.06 27.37 60.97 27.78	59.94 27.63 66	1
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u	76 69.43 30.91	69.29 31.21	69.16 31.52	69.02 31.82 76	H
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1	86 78.56 34.98	78.41 35.32	78.26 35.66	78.10 36.00 86	1
1	87 79.48 35.39	79.32 35.73	79.17 36.08	79.01 36.42 87	
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-	95 86.79 38.64	86.62 39.02	86.45 39.40	86.27 39.77 95	M
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1	17 15.28 .7.45	15.25 7.52	15.21 7.59	15.18 7.65 17	ı
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ı	20 17.98 8.77	17.94 8.85	17.90 8.92	17.86 9.00 20	1
ı	21 18.87 9.21	18.83 9.29	18.79 9.37	18.75 9.45 21	A
ı	22 19.77 9.64 23 20.67 10.08	19.73 9.73 20.63 10.17	19.69 9.82 20.58 10.26	19.65 9.90 22 20.54 10.35 23	ı
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ı	25 23.47 10.96	22.42 11.06	22.37 11.15	22.32 11.25 25	ı
1	26 23.37 11.40	23.32 11.50	23.27 11.60	23.22 11.70 26	ı
1	27 24.27 11.84	24.22 11.94	24.16 12.05	24.11 12.15 27	ı
1	28 25 17 12.27	25.11 12.38	25.06 11.49	25.00 12.60 28	ı
1	29 26.06 12.71 30 26.96 13.15	26.01 12.83	25.95 12.94	25.90 13.05 29	ı
ı	31 27.86 13.59	26.91 13.27	26.85 13.39 27.74 13.83	26.79 13.50 30	ı
1	32 28.76 14.03	27.80 13.71 28.70 14.15	28.64 14.28	27.68 13·95 31 28.58 14.40 32	1
ı	33 29.66 14.47	29.60 14.60	29.53 14.72	29.47 14.85 33	ı
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1	45 40.45 19.78	40.36 19.90	40.27 20.08	40.18 20.25 45	
1	46 41.34 20.17 47 42.24 20.60	41.26 20.35	41.17 20.53 42.06 20.97	41.08 20.70 46	
1	47 42.24 20.60 48 43.14 21.04	42.15 20.79 43.05 21.23	42.96 21.42	41.97 21.15 47 42.86 21.60 48	
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55 49.43 24.11	49.33 24.33	49.22 24.54		5
56 50.33 24.55	50.22 24.77	50.12 24.99	Bridge Colonia of the	6
57 51.23 24.99	51.12 25.21	51.01 25.43		3
58 52.13 25:43	52.02 25.65 52.92 26.09	51.91 25.88 52.80 26.33		8
59 53.03 25.86 60 53.93 26.30	53.81 26.54	53.70 26.77		0
61 54.83 26.74	54.71 26.98	54.59 27.22	54.47 27.46 6	-
62 55.73 27.18	55.61 27.42	55.49 27.66	55.36 27.91 6	
63 56.62 27.62	56.50 27.86	56.38 28.11	56.26 28.36 6	
64 57.52 28.06	57.40 28.31	57.28 28.56	57.15 28.81 6	
65 58.42 28.49	58 30 28.75	58.17 29.00	58.04 29.26 6	5
66 59.32 28.93	59.19 29.19	59.07 29.45	58.94 29.71 6	
67 60.22 29.37	60.09 29.63	59.96 29.90	59.83 30.16 6	
68 61.12 29.81	60.99 30.08	60.86 30.34	60.72 30.61 6	
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70 62.92 30.69		62.65 31.23	62.51 31.51 7	
71 63.81 31.12	63.68 31.40	63.54 31.68	63.40 31.96 7	
72 64.71 31.56 73 65.61 32.00	64.57 31.84 65.47 32.29	64.44 32.13 65.33 32.57	64.29 32.41 7 65.19 32.86 7	-
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75 67.41 32.88	67.27 33.17	67.12 33.46	66.97 33.76 7	
76 68.31 33.32	68.16 33.61		67.87 34.21 7	
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78 70.11 34.19	69.96 34.50	69.80 34.80	69.65 35.11 7	
79 71.00 34.63	70.85 34.94	70.70 35.25	70.55 35.56 79	
80 71.90 35.07	71.75 35.38	71.59 35.70	71.44 36.01 80	911
81 72.80 35.51	72.65 35.83	72.49 36.14	72.33 36.46 81	
82 73.70 35.95	73.54 36.27	73.38 36.59	73.22 36.91 85	
83 74.60 36.38	74.44 36.71	74,28 37.03	74.12 37.36 85	
84 75.50 36.82 85 76.40 37.26	75.34 37.15 76.23 37.59	75.17 37.48 76.07 37.93	75.01 37.81 84 75.90 38.26 83	
86 77.30 37.70	77.13 38.04	76.96 38.37	76.80 38.71 86	
87 78 20 38 14	78.03 38.48	77.86 38.82	77.69 39.16 87	
88 79.09 38.58	78.92 38.92	78.75 39.27	78.58 39.61 88	
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90 80.89 39.45	80.72 39.81	80.54 40.16	80.37 40.51 90	0
91 81.79 39.89	81.62 40.25	81.44 40.60	81.26 40.96 91	
92 82.69 40.33	82.51 40.69	82.33 41.05	82.15 41.41 95	
93 83.59 40.77	83.41 41.13	83.23 41.50	83.05 41.86 93	
94 84.49 41.21	84.31 41.58	84.12 41.94	83.94 42.31 94	
95 85.39 41.65	85.20 42.02	85.02 42.39	84.83 42.76 95 85.73 43.21 96	
96 86.28 42.08 97 87.18 42.52	86.10 42.46 87.00 42.90	85.91 42.83 86.81 43.28		
98 88.08 42.96	87.89.43.34	87.70 43.73	86.62 43.66 97 87.51 44.11 98	
99 88.98 43.40	88.79 43.79	88.60 44.17	88.40 44.56 99	
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4 3.56 1.82	3.56-1.83	3.55 1.85	3.54 1.86 4
5 4.45 2.27	4.45 2.29	4.44 2.31	4.42 233 5
6 555 972	5.33 2.75	5.32 2.77	5.31 279 6
7 624 3.18			6.19 3.26 7
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9 8.00 4.09	8.00 4.12	7.98 4.16	7.96 4.19 9
10 8.91 4.54	8.89 4.58	8.87 4.62	8.85 4.66 10
11 9.50 A.99	9.78 3.04	9.76 5.08	9.73 5.12 11
12 ln.69 8 45	10.67 5.49	10,64 5.54	10.62 5.59 12
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15 13.37 6.81	13.34 6.87	13.31 6.93	13.27 6.98 15
1614-26 7.26	14 22 7.33	14.19 7.39	14.16 7.45 16
1715.15 7.72	15.11 7.78	15.08 7.85	15.04 7.92 17
1816.04 8.17	16.00 8.24	15.97 8.31	15.93 8.38 18
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49 43 66 21 25	43.56(22.44	43,45,22,63	43.36 22.82 49
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56 49.90 25.42 57 50.79 25.88	49.78 25.64 50.67 26.10	50.56 26.52	49.56 26.07 56 50.44 26.54 57	ı
58 51.68 26.33	51.56 26.56	51.45 26.78	50.44 20.54 57 51.33 27.01 58	н
59 52.57 26.79	52.45 27.01	52.33 27.24	52.21 27.47 59	Н
60 53.46 27.24	53.34 27.47	53.22 27.70	53.10 27.94 60	н
61 54.35 27.69	54.23 27.93	54.11 28.17	53.98 28.40 61	Н
62 55.24 28.15	55.12 28.39	54.99 28.63	54.87 28.87 62	ı
63 56.13 28.60 64 57.02 29.06	56.01 28.85	55.88 29.09	55.75 29.33 63	ı
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65 57.92 29.51	57.79 29.76	57.66 30.01	57.52 30.26 65	ı
66 58.81 29.96	58.68 30.22	58.54 30.48	58.41 30.73 66	1
67 59.70 30.42 68 60.59 30.87	59.56 30.68	59.43 30.94	59.29 31.20 67 60.18 31.66 68	1
69 61.48 31.33	60.45 31.14 61.34 31.59	60,32 31,40	60.18 31.66 68 61.06 32.13 69	ı
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71 63.26 32.23		62.98 32.78		п
72 64.15 32.69	63.12 32.51 64.01 32.97	63.86 33.25	62.83 33.06 71 63.72 33.52 72	П
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73 65.04 33.14 74 65.93 33.60	64.90 33.42 65.79 33.88	65.64 34.17	65.49 34.46 74	и
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76 67.72 34.50	67.57 34.80	67.41 35.09	67.26 35.39 76	и
77 68.61 34.96	68.45 35.26	68.30 35.55	68.14 35.85 77	Ш
78 69.50 35.41	69.34 35.71	69.19 36.02	69.03 36.32 78	u
79 70.39 35.87	70.23 36.17	70.07 36.48	69.91 36.78 79	u
80 71.28 36.32	71.12 36.63	70.96 36.94	70.80 37.25 80	П
81 72.17 36.77	72.01 37.09	71.85 37.40	71.68 37.71 81	п
82 73.06 37.23	72.90 37.55	72.73 37.86	72.57 38.18 82	ñ
83 73.95 37.68	73.79 38.00	73.62 38.33	73.45 38.65 83 74.34 39.11 84	В
84 74.84 38.14 85 75.74 38.59	74.68 38.46 75.57 38.92	74.51 38.79 75.40 39.25	74.34 39.11 84 75.22 39.58 85	H
86 76.63 39.04	76.46 39.38	76.28 39.71	76.11 40.04 86	и
87 77.52 39.50	77.34 39.84	77.17 40.17	76.99 40.51 87	н
87 77.52 39.50 88 78.41 39.95	78.23 40.29	78.06 40.63	77.88 40.97 88	1
89 79.30 40.41	79.12 40.75	78.94 41.10	78.76 41.44 89	1
90 80.19 40.86	80.01 41.21	79.83 41.56	79.65 41.91 90	
91 81.08 41.31	80.90 41.67	80.72 42.02	80.53 42.37 91	1
92 81.97 41.77	81.79 42.12	81.60 42.48	81.42 42.84 92	1
93 82.86 42.22	82.68 42.58 83.57 43.04	82.49 42.94	82.30 43.30 93	
94 83.75 42.68		83.38 43.40	83.19 43.77 94	1
95 84.65 43.13	84.46 43.50	84.27 43.87	84.07 44.23 95 84.96 44.70 96	
96 85.54 43.58 97 86.43 44.04	85.35 43.96 86.23 44.41	85.15 44.33 86.04 44.79	84.96 44.70 96 85.84 45.16 97	1
9887.3244.49	87.12 44.87	86.93 45.25	86.73 45.63 98	I
99 88.21 44.95	88.01 45.33	87.81 45.71	87.61 46.10 99	1
100 89.10 45.40	88.90 45.79	88.70 46.17	88.50 46.56 100	
Dep. Lat	Dep. Lat.	Dep. Lat.	Dep. Lat.	18
63 Deg.	623 Deg.	621 Deg.	621 Deg 0	1
la los Deg.	oza Deg.	Hors Pich.	Lord Deg   D	Ų
M. The state of th				*

The same of	TOP Y LINE	- TITPEE	. 10
B = to Day	i ent Des	Leol Day	302 Deg.   D
5 30 Deg.	301 Deg.	301 Deg	0 0
# I.at. Dep.	Lat. Dep.	Lat. Dep.	Lat. Dep =
1 0.87 0.50	0.86 0.50	0.86 0.51	0.86 0.51 1
2 1.73 1.00	1.73 1.01	1.72 1.02	1.72 1.02 2
3 260 150	2.59 1.51	2.58 1.52	2.58 1.53 3
4 3.46 2.00 5 4.33 2.50 6 5.20 3.00	3.46 2.02	8.45 2.03	3.44 2.05 4
5 4.33 2.50	4.32 2.52	4.31 2.54	4.30 2.56 5
6 5.20 3.00 7 6.06 3.50	518 3.02	5.17 3.05	5.16 3.07 6 6.02 3.58 7
	6.05 3.53 6.91 4.03	6.03 3.55	6.02 3.58 7 6.88 4.09 8
8 6.93 4.00 9 7.79 4.50	6.91 4.03 7.77 4.53	7.75 4.57	7.73 4.60 9
9 7.79 4.50 10 8.66 5.00	8.64 5.04	8.62 5.08	8.59 5.11 10
11 9.53 5.50	9.50 5.54	9.48 5.58	9.45 5.62 11
1310.59 6.00	10.37 6.05	10.54 6.09	10.31 6.14 12
1311.26 6.50	11.23 6.55	11.20 6.60	11.17 6.65 13
14 12.12 7.00	12.09 7.05	12.06 7.11	12.03 7.16 14
15 12.99 7.50	12.96 7.56	12.92 7.61	12.89 7.67 15
16 13.86 8.00	13.82 8.06	13.79 8.12	13.75 8.18 16
17 1472 850	14.69 8.56	14.65 8.63	14.61 8.69 17
18 15.59 9.00	15.55 9.07	15.51 9.14	15.47 9.20 18
1915.45 9.50	16.41 9.57	16.37 9.64	16.33 9.71 19
20/17-32 10.00	17.28 10.08	17.23 10.15	17.19 10.23 20
21 18 19 10.50	18.14 10.58	18.09 10.66	18.05 10.74 21
22 19.05 11.00	19.00 11.08	18.9611.17	18.91 11.25 22
23 19.92 11.50	19.87 11.59	19.82 11.67	19.77 11.76 23
24 20.78 12.00	20.73 12.09	20.68 12.18	20.63 12.27 24
25 21 65 12 50	21.60 12.59	21.54 12.69	21.49 12.78 25
26/22/52/13:00	22.46 13.10	22.40 13.20	22.34 13.29 26
27 23.38 13.50	23.32 13.60	23.26 13.70	23.20 13.80 27
2925.1114.50	24.19 14.11	24.9914.72	24.06 14.32 28 24.92 14.83 29
30 25.98 15.00	25.05 14.61 25.92 15.11	25.85 15.23	24.92 14.83 29 25.78 15.34 30
		DESCRIPTION AND ADDRESS.	
31 26.85 15.50	26.78 15.62	26.71 15.73 27.57 16.24	26.64 15.85 31
32 27.71 16.00 33 28.58 16.50	27.64 16.12 28.51 16.62	27.57 16.24 28.43 16.75	27.50 16.36 32 28.36 16.87 33
34 29.44 17.00		29.3V 17.26	29.22 17.38 34
35 30 31 17.50	29.37 17-13 30.23 17.63	30.16 17.76	30.08 17.90 35
3631.1818.00	31.10 18.14	31.02 18.27	30.94 18.41 36
37 32.04 18.50	31.96 18.64	31.88 18.78	31.80 18.92 37
38 32 91 19.00	32.83 19.14	32.74 19.29	32.66 19.43 38
39 33.77 19.50	33.69 19.65	33.60 19.79	33.5919.94 39
40 34.54 20.00	34.55 20.15	-34.47 20.30	34.38 20.45 40
41 35.51 20.50	35.42 20.65	35.33 20.81	35.24 20.96 41
42 36.37 21.00	36.38 21.16	36.19 21.32	36.10 21.47 42
43 37.24 21.50	37.14 21.66	37.05 21.82	36.95 21.99 43
44 38.11 22.00	38.01 22.17	37.91 22.33	37.81 22.50 44
45 38 97 22.50	38.87 22.67	38.77 22.84	38.67 23.01 45
46 59.84 23.00	39.74 23.17	59.63 23,35	39.53 23.52 46
47 40.70 23.50	40.60 23.68	40.50 23.85	40.59 24.03 47
48 41.57 24.00	41.46 24.18 42.33 24.68	41.36 24.36	41.25 24.54 48
49 42 44 24 50 50 43 30 25 00		42.22 24.87 43.08 25.38	CONTRACTOR OF THE PERSON NAMED IN
THE PERSON NAMED IN	43.19 25.19	District of State of the little of the littl	Principal page 19 Company
Dep. Lat.	Dep. Lat.	Dep. Lat.	Dep Lat.
5 60 Deg.	59 Deg	591 Deg	591 Deg. 0
· C			

<b>X</b>			
28 Deg. 1	281 Deg.	281 Deg.	283 Deg   U
Lat. Dep.	Lat. Dep.	Lat. Dep.	Lat. Dep. 5
51 45.03 23.94	44.93 24.14	44.82 24.34	44.71 24.53 51
52 45.91 24.41	45.81 24.61	45.70 24.81	45.59 25.01 52
53.46.80 24.88	46.69 25:09	46.58 25.29	46.47 25.49 53
54 47.68 25.35	47.57 25.56	47.46 25.77	47.34 25.97 54
55 48.56 25.82	48,45 26.03	48.33 26.24	48.22 26.45 55
56 49.45 26.29	49.33 26.51	49.21 26.72 59.09 27.20	49.10 26,94 56 49.97 27.42 57
57 50.33 26.76	50.21 26.98		
58 51.21 27.23	51.09 27.45 51.97 27.93	50.97 27.68	50.85 27.90 58
59 52.09 27.70	51.97 27.93	51.85 28.15	51.73 28.38 59
60 52.98 28.17	52.85 28.40	52.73 28.63	52.60 28.86 60
61 53.86 28.64	53.73 28.87	53.61 29.11	53,48 29.34 61
62 54.74 29.11	54.62 29.35	54.49 29.58 55.37 30.06	54.36 29.82 62
63 55.63 29.58	55.50 29.82	56.24 30.54	55.23 30.30 63 56.11 30.78 64
64 56.51 30.05	56.38 30.29 57.26 30.77	57.12 31.02	56.99 31.26 65
66 58.27 30.99	58.14 31.24	58.00 31,49	57.86 31.75 66
67 59.16 31.45	59.02 31.71	58.88 31.97	58.74 32.23 67
68 60.04 31.92	59.90 32.19	59,7632.45	59.62 32.71 68
69 60.92 32.39	60.78 32.66	60.64 32.92	60.49 33.19 69
70 61.81 32.86	61.66 33.13	61.52 33.40	60.49 33.19 69 61.37 33.67 70
71 62.69 33.33	62.54 33.61	62.40 33.88	62.25 34.15 71
72 63.57 33.80	63.42 34.08	63.27 34.36	63.12 34.63 72
73 64.46 34.27	64.30 34.55	64.15 34.83	64.00 35.11 73
74 65.34 34.74	65.19 35.03	65.03 35.31	64.88 35.59 74
75 66.22 35.21	66.07 35.50	65.91 35.79	65.75 36.07 75
76 67.10 35.68 77 67.99 36.15	66.95 35.97	66.79 36.26	66.63 36.56 76
77 67.99 36.15	67.83 36.45	67.67 36.74	67.51 37.04 77
78 68.87 36.62 79 69.75 37.09	68.71 36.92	68.55 37.22 69.43 37.70	68.58 37.52 78
8070.6437.56	69.59 37.39 70.47 37.87	70.31 38.17	69.26 38.00 79 70.14 38.48 80
	71.35 38.34	71.18 38.65	Control of the Contro
81 71.52 38.03 82 72.40 38.50	72.23 38.34	72.06 39.13	71.01 38.96 81 71.89 39.44 82
83 73.28 38.97	73.1139.29	72.94 39.60	72.77 39.92 83
84 74.17 39.44	73.99 39.76	73.82 40.08	73.64 40.40 84
85 75.05 39.91	74.88 40.23	74.70 40.56	74.52 40.88 85
86 75.93 40.37	75.76 40.71	75.58 41.04	75.40 41.36 86
87 76.82 40.84	76.64 41.18	76.46 41.51	76.28 41.85 87
88 77.70 41.31	77.52 41.65	77.34 41.99	77.15 42.33 88
89 78.58 41.78 90 79.47 42.25	78.40 42.13	78.21 42.47	78.03 42.81 89
	79.28 42.60	79.09 42.94	78.91 43.29 90
91 80.35 42.72	80.16 43.07	79.97 43.42	79.78 43.77 91
92 81.23 43.19	81.04 43.55 81.92 44.02	80.85 43.90	80.66 44.25 92
93 82.11 43.66		81.73 44.38	81.54 44.73 93
94 83.00 44.13	82.80 44.49	82.61 44.85	82.41 45.21 94 83.29 45.69 95
95 83.88 44.60 96 84.76 45.07	83.68 44.97 84.57 45.44	83.49 45.33 84.37 45.81	83.29 45.69 95 84.17 46.17 96
97 85.65 45.54	85.45 45.91	85.25 46.28	85.04 46.66 97
98 86.53 46.01	86.33 46.39	86.12 46.76	85.92 47.14 98
99 87.41 46.48	87.21 46.86	87.00 47.24	
100 88.29 46.95	88.09 47.33	87.88 47.72	86.80 47.62 99 87.67 48.10 100
Dep. Lat,	Dep. Lat.	Dep. Lat.	Dep. Lat.
62 Deg.		61 Deg.	
H H Tos Deg.	Il ort neg.	Il out DeR.	I STATES A
76	THE PERSON NAMED IN		

U 34 Deg.	341 Deg.	341 Deg. 1	34 Deg. Deg.
Lat. Dep.	Lat. Dep.	Lat. Dep.	Lat. Dep.
1 0.83 0.56	0.83 0.56	0.82 0.57	0.82 0.57 1
The state of the s	1.65 1.13	1.65 1.13	1.64 1.14 2
2 1.66 1.12 3 2.49 1.68	2.48 1.69	2.47 1.70	2.46 1.71 3
4 3.32 2.24	3.31 2.25	3.30 2.27	3.29 2.28 4
5 4.15 2.80 6 4.97 3.36	4.13 2.81	4.12 2.83	4.11 2.85 5
	4.96 3.38	4.94 3.40	4.11 2.85 5 4.93 3.42 6 5.75 3.99 7
7 5.80 3.91	5.79 3.94 6.61 4.50	5.77 3.96	5.75 3.99 7 6.57 4.56 8
8 6.63 4.47 9 7.40 5.03	6.61 4.50 7.44 5.07	6.59 4.53 7.42 5.10	6.57 4.56 8 7.39 5.13 9
10 8.29 5.59	8.27 5.63	8.24 5.66	8.22 5.70 10
11 9.12 6.15	9.09 6.19	9.07 6.23	9.04 6.27 11
12 9.95 6.71	9.92 6.75	9.89 6.80	9.86 6.84 12
13 10.78 7.27	10.75 7.32	10.71 7.36	10.68 7.41 13
14 11.61 7.65	11.57 7.88	11.54 7.93	11.50 7.98 14
15 12.44 8.39	12.40 8.44	12.36 8.50	12.32 8.55 15
16 13.26 8.95	13.23 9.00	13.19 9.06	13.15 9.12 16
17 14.09 9.51	14.05 9.57	14.01 9.63	13.97 9.69 17
18 14.92 10.07 19 15.75 10.62	14.88 10.13 15.71 10.69	14.83 10.20 15.66 10.76	14.79 10.26 18 15.61 10.83 19
20 16.58 11.18	16.53 11.26	16.48 11.33	16,43 11.40 20
21 17.41 11.74	17.36 11.82	17.31 11.89	17.25 11.97 21
22 18.24 12.30	18.18 12.38	18.13 12.46	18.08 12.54 22
23 19.07 12.86	19.01 12.94	18.95 13.03	18.90 13.11 23
24 19.90 13.42	19.84 13.51	19.78 13.59	19.72 13.68 24
25 20.73 13.98	20.66 14.07	20.60 14.16	20.54 14.25 25
26 21.55 14.54	21.49 14.63	21.43 14.73	21.36 14.82 26
27 22.38 15.10	22.32 15.20	22.25 15.29	22.18 15.39 27
28 23.21 15.66	23.14 15.76	23.08 15.86	23.61 15.96 28
29 24.04 16.22 30 24.87 16.78	23.97 16.32	23.90 16.43	23.83 16.53 29 24.65 17.10 30
	24.80 16.88	24.72 16.99	Control of the latest street, which the latest
31 25.70 17.33 32 26.53 17.89	25.62 17.45 26.45 18.01	25.55 17.56 26.37 18.12	25.47 17.67 31 26.29 18.24 32
33 27.36 18.45	27.28 18.57	27.20 18.69	26.29 18.24 32 27.11 18.81 33
34 28.19 19.01	28.10 19.14	28.02 19.26	27.94 19.38 34
35 29.02 19.57	28.95 19.70	28.84 19.82	28.76 19.95 35
36 29.85 20.13	29.76 20.26		29.58 20.52 36
37 30.67 20.69	30.58 20.82	29.67 20.39 30.49 20.96	30.40 21.09 37
38 31.50 21.25	31.41 21.39	31.32 21.52	31.22 21.66 38
39 32.33 21.81	32.24 21.95	32.14 22.09	32.04 22.23 39
40 33.16 22.37	33.06 22.51	32.97 22.66	32.87 22.80 40
41 33.99 22.93	33.89 23.07	33.79 23.22	33.69 23.37 41
42 34.82 23.49 43 35.65 24.05	34.72 23.64 35.54 24.20	34.61 23.79 35.44 24.36	34.51 23.94 42 35.33 24.51 43
44 36.48 24.60	36.37 24.76	36.26 24.92	35.33 24.51 43 36.15 25.08 44
45 37.31 25.16	37.20 25.33	37.09 25.49	36.97 25.65 45
46 38.14 25.72	38.02 25.89	37.91 26.05	37.80 26.22 46
47 38.96 26.28	38.85 26.45	37.91 26.05 38.73 26.62	38.62 26.79 47.
48 39.79 26.84	39.68 27.01	39.56 27.19	39.44 27.36 48
49 40.62 27.40	40.50 27.58	40.38 27.75	40.26 27.93 49
50 41.45 27.96	41.33 28.14	41.21 28.32	41.08 28.50 50
Dep. Lat.	Dep. Lat.	Dep. Lat.	Dep. Lat.
56 Deg.	553 Deg.	551 Deg.	55 Deg. 5
	Name of Street		

0 29 Deg.	291 Deg.	291 Deg.	293 Deg. Deg.
Lat. Dep.	Lat Dep.	Lat Dep	Lat.   Dep. S
51 44.61 24.73	44.50 24.92	44.39 25.11	44.28 25.31 51
52 45.48 25.21	45.37 25.41	45.26 25.61	45.15 25.80 52
53 46.35 25.69	46.24 25.90	46.13 26.10	46.01 26.30 53
54 47.23 26.18	47.11 26.39	47.00 26.59	46.88 26.80 54
55 48.10 26.66	47.99 26.87	47.87 27.08	47.75 27.29 55
56 48.98 27.15	48.86 27.36	48.74 27.58	48.62 27.79 56 49.49 28.28 57
57 49.85 27.63 58 50.73 28.12	49.73 27.85 50.60 28.34	49.61 28.07 50.48 28.56	49.49 28.28 57 50.36 28.78 58
59 51.60 28.60	51.48 28.83	51.35 29.05	51.22 29.28 59
60 52.48 29.09	52.35 29.32	52.22 29.55	52.09 29.77 60
61 53.35 29.57	53.22 29.81	53.09 30.04	52.96 30.27 61
62 54 23 30.06	54.09 30.29	53.96 30.53	53.83 30.77 62
63 55.10 30.54	54.97 30.78	54.83 31.02	54.70 31.26 63
64 55.98 31.03	55.84 31.27	55.70 31.52	55.56 31.76 64
65 56.85 31.51	56.71 31.76	56.57 32.01	56.43 32.25 65
66 57.72 32.00	57.58 32.25	57.44 32.50	57.30 32.75 66
67 58.60 32.48 68 59.47 32.97	58.46 32.74	58.31 32.99 59.18 33.48	58.17 33.25 67 59.04 33.74 68
68 59.47 32.97 69 60.35 33.45	59.33 33.23 60.20 33.71	60.05 33.98	59.0433.74 68 59.9134.24 69
70 61.22 33.94	61.07 34.20	60.92 34.47	60.77 34.74 70
71 62.10 34.42	61.95 34.69	61.80 34.96	61.64 35.23 71
72 62.97 34.91	62.82 35.18	62.67 35.45	62.51 35.73 72
73 63.85 35.39	63.69 35.67	63.54 35.95	63.38 36.22 73
74 64.72 35.88	64.56 36.16	64.41 36.44	64.25 36.72 74
75 65.60 36.36	65.44 36.65	65.28 36.93	65.11 37.22 75
76 66.47 36.85	66.31 37.14	66.15 37.42	65.98 37.71 76
77 67.55 37.33	67.18 37.62	67.02 37.92	66.85 38.21 77
78 68.22 37.82 79 69.09 38.30	68.05 38.11	67.89 38.41	67.72 38.70 78 68.59 39.20 79
80 69.97 38.78	68.93 38.60 69.80 39.09	68.76 38.90 69.63 39.39	69.46 89.70 80
8170.84 39.27		70.50 39.89	70.32 40.19 81
8271.72 39.75	70.67 39.58 71.54 40.07	71.37 40.38	71.19 40.69 82
83 72.59 40.24	72.42 40.56	72.24 40.87	72.06 41.19 83
84 73.47 40.72	73.29 41.04	73.11 41.36	72.93 41.68 84
85 74.34 41.21	74.16 41.53	73.98 41.86	73.80 42.18 85
86 75.22 41.69	75.03 42.02 75.91 42.51	74.85 42.35	74.67 42.67 86
87 76.09 42.18	75.91 42.51	75.72 42.84	75.53 43.17 87
88 76.97 42.66 89 77.84 43.15	76.78 43.00	76.59 43.33 77.46 43.83	76.40 43.67 88 77.27 44.16 89
90 78.72 43.63	77.65 43.49 78.52 43.98	78.33 44.32	78.14 44.66 90
9179.59 44.12	79.40 44.46	79.20 44.81	79.01 45.16 91
92 80.46 44.60	80.27 44.95	80.07 45.30	79.87 45.65 92
93 81.34 45.09	81.14 45.44	80.94 45.80	80.74 46.15 93
94 82.21 45.57	82.01 45.93	81.81 46.29	81.61 46.64 94
95 83.09 46.06	82.89 46.42	82.68 46.78	82.48 47.14 95
96 83.96 46.54	83.76 46.91	83.55 47.27	83.35 47.64 96
97 84.84 47.03	84.63 47.40	84.42 47.77	84.22 48.13 97
98 85.71 47.51 99 86.59 48.00	85.50 47.88	85.29 48.26	85.08 48.63 98 85.95 49.13 99
100 87.46 48.48	86.38 48.37 87.25 48.86	86.17 48.75 87.04 49.24	86.82 49.62 100
	Dep Lat.	Dep. Lat.	
Dep. Lat.			Dep. Lat.
D 61 Deg.	603 Deg. 1	60½ Deg.	601 Deg
		-	

6-				g
US5 Deg	351 Deg.	35 Deg. 1	35 - Deg. 0	î
Lat. Dep.	Lat. Dep	Lat. Dep.	Lat. Dep. 2	ı
1 0.82 0.57	0.82 0.58	0.81 0.58	0.81 0.58 1	ı
	1.63 1.15	1.63 1.16	1.62 1.17 2	ı
3 2.46 1.72	2.45 1.73	2.44 1.74	2.43 1.75 3	а
2 1.64 1.15 3 2.46 1.72 4 3.28 2.29 5 4.10 2.87 6 4.91 3.44 7 5.73 4.01 8 6.55 4.59	3.27 2.31	326 232	3.25 2.34 4	а
5 4.10 2.87	4.08 2.89	4.07 2.90	4.06 2.92 5	в
6 4.91 3.44	4.90 3.46	4.88 3.48	4.87 3.51 6	ı
7 5.73 4.01	5.72 4.04 6.53 4.62	5.70 4.06	5.68 4.09 7	П
8 6.55 4.59 9 7.37 5.16	6.53 4.62	6.51 4.65 7.33 5.23	6.49 4.67 8 7.30 5.26 9	П
10 8.19 5.74	8.17 5.77	8.14 5.81	7.30 5.26 9 8.12 5.84 10	ı
11 9.01 6.31	8.98 6.35	8.96 6.39	8.93 6.43 11	1
12 9.83 6.88	9.80 6.93	9.77 6.97	9.74 7.01 12	ı
13 10.65 7.46	10.62 7.50	10.58 7.55	10.55 7.60 13	ı
14 11.47 8.03	11.43 8.08	11.40 8.13	11.36 8.18 14	ı
15 12.29 8.60	12.25 8.66	12.21 8.71	12.17 8.76 15	
16 13.11 9.18	13.07 9.23	13.03 9.29	12.99 9.35 16	
17 13.93 9.75	13.88 9.81	13.84 9.87	13.80 9.93 17	
18 14.74 10.32	14.70 10.39	14.65 10.45	14.61 10.52 18	ı
19 15.56 10.90	15.52 10.97	15.47 11.03	15.42 11.10 19	A
20 16.38 11.47	16.33 11.54	16.28 11.61	16.23 11.68 20	ı
21 17 20 12.05	17.15 11.12	17.10 12.19	17.04 12.27 21	ı
22 18.02 12.62	17.97 12.70	17.91 12.78	17.85 12.85 22	ı
23 18.84 13.19 24 19.66 13.77	18.78 13.27 19.60 13.85	18.72 13.36 19.54 13.94	18.67 13.44 23	а
25 20.48 14.34	20.42 14.43	20.35 14.52	19.48 14.02 24 20.29 14.61 25	ı
26 21.30 14.91	21.23 15.01	21.17 15.10	21.10 15.19 26	ı
27 22 19 15 49	22.05 15.58	21.98 15.68	21.91 15.77 27	ı
28 22.94 16.06	22.87 16.16	22.80 16.26	22.72 16.36 28	ı
29 23.76 16.63	23.68 16.74	23.61 16.84	23.54 16.94 29	A
28 22.94 16.06 29 23.76 16.63 30 24.57 17.21	24.50 17.31	24.42 17.42	24.35 17.53 30	ı
31 25.39 17.78	25.32 17.89	25.24 18.00	25.16 18.11 31	A
32 26 21 18.35	26.13 18.47	26.05 18.58	25.97 18.70 32	ı
33 27.03 18.93	26.95 19.05	26.87 19.16	26.78 19.28 33	ı
34 27.85 19.50	27.77 19.62	27.68 19.74	27.59 19.86 34	ı
35 28.67 20.08 36 29.49 20.65	28.58 20.20	28.49 20.32	28.41 20.45 35	ı
36 29.49 20.65	29.40 20.78	29.31 20.91	29.22 21.03 36	ı
37 30.31 21.22 38 31.13 21 80	30.22 21.35 31.03 21.93	30.12 21.49 30.94 22.07	30.03 21.62 37 30.84 22.20 38	
39 31.95 22.37	31.85 22.51	31.75 22.65	31.65 22.79 39	
40 32.77 22.94	32.67 23.09	32.56 23.23	32.46 23.37 40	
41 33.59 23.52	33.48 23.66	33.38 23.81	33.27 23.95 41	
42 34.40 24.09	34.30 24.24	34.19 24.39	34.09 24.54 42	
43 35.22 24.66	35.12 24.82	35.01 24.97	34.90 25.12 43	1
44 36.04 25.24	35.93 25.39	35.82 25.55	35.71 25.71 44	
45 36.86 25.81	36.75 25.97	36.64 26.13	36.52 26.29 45	1
46 37.68 26.38	37.57 26.55 38.38 27.13	37.45 26.71	37.33 26.88 46	
47 38.50 26.96	38.38 27.13	38.26 27.29	38.14 27.46 47	
48 39.32 27.53	39.20 27.70	39.08 27.87	38.96 28.04 48	
49 40.14 28.11	40.02 28.28	39.89 28.45	39.77 28.63 49 40.58 29.21 50	
50 40.96 28.68	40.83 28.86	40.71 29.04		
Dep. Lat.	Dep. Lat.	Dep. Lat.	Dep. Lat.	
2   55 Deg	543 Deg.	541 Deg.	54 Deg. 0	
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0 35 Deg.	351 Deg.	351 Deg.	353 Deg. 51
Lat. Dep.	Lat, Dep.	Lat Dep.	Lat. Dep. 5
51 41.78 29.25	41.65 29.43	41.52 29.62	41.39 29.80 51
52 42.60 29.83	42.47 30.01	42.33 30.20	42.20 30.38 52
53 43 42 30 40	43.28 30.59	43.15 30.78	43.01 30.97 53
54 44.23 30.97 55 45.05 31.55	44.10 31.17	43.96 31.36	43.82 31.55 54 44.64 32.13 55
56 45.87 32.12	44.92 31.74 45.73 32.32	44.78 31.94 45.59 32.52	44.64 32.13 55 45.45 32.72 56
57 46.69 32.69	46.55 32.90	46.40 33.10	46.26 33.30 57
58 47.51 33.27	47.37 33.47	47.22 33.68	47.07 33.89 58
59 48.33 33.84	48.18 34.05	48.03 34.26	47.88 34.47 59
60 49.15 34.41	49.00 34.63	48.85 34.84	48.69 35,05 60
61 49.97 34.99	49.82 35.21	49.66 35.42	49.51 35.64 61
62 50.79 35.56	50.63 35.78	50.48 36.00	50.32 36:22 62
63 51.61 36.14 64 52.43 36.71	51.45 36.36 52.27 36.94	51.29 36.58 52.10 37.16	51.13 36.81 63 51.94 37.39 64
65 53.24 37.28	53.08 37.51	52.92 37.75	51.94 37.39 64 52.75 37.98 65
66 54.06 37.86	53.90 38.09	53.73 38.33	53.56 38.56 66
67 54.88 38.43	54.71 38.67	54.55 38.91	54.38 39.14 67
68 55.70 39.00	55.53 39.25	55.36 39.49	55.19 39.73 68
69 56.52 39.58	56.35 39.82	56.17 40.07	56.00 40.31 69
70 57.34 40.15	57.16 40.40	56.99 40.65	56.81 40.90 70
71 58.16 40.72 72 58.98 41.30	57.98 40.98 58.80 41.55	57.80 41.23 58.62 41.81	57.62 41.48 71 58.43 42.07 72
73 59.80 41.87	59.61 42.13	59.43 42.39	58.43 42.07 72 59.24 42.65 73
74 60.62 42.44	60.43 42.71	60.24 42.97	60.0643.23 74
75 61.44 43.02	61.25 43.29	61.06 43.55	60.87 43.82 75
76 62.26 43.59	62.06 43.86	61.87 44.13	61.68 44.40 76
77 63.07 44.17	62.88 44.44	62.69 44.71	62.49 44.99 77
78 63.89 44.74 79 64.71 45.31	63.70 45.02	63.50 45.29	63.30 45.57 78 64.11 46.16 79
80 65.53 45.89	64.51 45.59 65.33 46.17	64.32 45.88 65.13 46.46	64.11 46.16 79 64.93 46.74 80
81 66.35 46.46	66.15 46.75	65.94 47.04	65.74 47.32 81
82 67.17 47.03	66.96 47.33	66.76 47.62	66.55 47.91 82
83 67.99 47.61	67.78 47.90	67.57 48.20	67.36 48.49 83
84 68.81 48.18	68.60 48.48	68.39 48.78	68.17 49.08 84
85 69.63 48.75	69.41 49.06	69.20 49.36	68.98 49.66 85
86 70.45 49.33 87 71.27 49.90	70.23 49.63 71.05 50.21	70.01 49.94 70.83 50.52	69.80 50.25 86
88 72.09 50.47	71.86 50.79	71.64 51.10	70.61 50.83 87
89 72.90 51.05	72.68 51.37	72.46 51.68	72.23 52.00 89
90 73.72 51.62	73.50 51.94	73.27 52.26	73.04 52.58 90
91 74.54 52.20	74.31 52.52	74.08 52.84	73.85 53.17 91
9275.36 52.77	75.13 53.10	74.90 53.42	74.66 53.75 92
93 76.18 53.34	75.95 53.67	75.71 54.01	75.48 54.34 98
94 77.00 53.92	76.76 54.25	76.53 54.59	76.29 54.92 94
9577.8254.49 9678.6455.06	77.58 54.83 78.40 55.41	77.34 55.17 78.16 55.75	77.10 55.50 95 77.91 56.09 96
97 79.46 55.64	79.21 55.98	78.97 56.33	77.91 56.09 96 78.72 56.67 97
98 80.28 56.21	80.03 56.56	79.78 56.91	79.53 57.26 98
99 81.10 56.78	80.85 57.14	80.60 57.49	80.35 57.84 99
100 81.92 57.36	81.66 57.71	81.41 58.07	81.16 58.42 100
Dep. Lat.	Dep Late	Dep. Lat.	Dep. Lat.
55 Deg.	543 Deg.	541 Deg.	541 Deg. 5
(i	THE REAL PROPERTY.	. 0	A CONTRACTOR OF THE PARTY OF TH

51 Deg. 1		311 Deg.	314 Deg. 💆
Lat. Dep.	Lat. Dep.	Lat. Dep.	Lat. Dep. =
1 0.86 0.51	0.85 0.52	0.85 U.52	0.85 0.53 1
2 1.71 1.03 3 2.57 1.55	1.71 1.04	1.71 1.04	1.70 1.05 2
	2.56 1.56	2.56 1.57	2.55 1.58 3
4 3.43 2.06 5 4.29 2.58 6 5.14 3.09	3.42 2.08 4.27 2.59	3.41 2.09 4.26 2.61	3.40 2.10 4 4.25 2.63 5 5.10 3.16 6
6 5.14 3.09	5.13 3.11	5.12 3.13	5.10 3.16 6
7 6.0u 3.61	5.98 3.63	5.97 3.66	5.95 3.68 7
8 6.86 4.12	6.84 4.15	6.82 4.18	6.80 4.21 8 7.65 4.74 9
9 7.71 4.64	7.69 4.67	7.67 4.70	
10 8.57 5.15	8.55 5.19	8.53 5.22	8.50 5.26 10
11 9.43 5.67	9.40 5.71	9.38 5.75	9.35 5.79 11
12 10.29 6.18	10.26 6.23	10.23 6.27	10.20 6.31 12
T3 11.14 6.70 14 12.00 7.21	11.11 6.74	11.08 6.79	11.05 6.84 13
14 12.00 7.21 15 12.86 7.73	11.97 7.26 12.82 7.78	11.94 7.31 12.79 7.84	11.90 7.37 14 12.76 7.89 15
16 13.71 8.24	13.68 8.30	13.64 8.36	13.61 8.42 16
17 14.57 8.76	14.53 8.82	14.49 8.88	14.46 8.95 17
18 15.43 9.27	15.39 9.34	15.35 9.40	15.31 9.47 18
19 16 29 9 79	16.24 9.86	16.20 9.93	16.16 10.00 19
20 17.14 10.30	17.10 10.38	17.05 10.45	17.01 10.52 20
21 18.00 10.82	17.95 10.89	17.91 10.97	17.86 11.05 21
22 18.86 11.33	18.81 11.41	18.76 11.49	18.71 11.58 22
23 19.71 11.85 24 20.57 12.36	19.66 11.93	19.61 12.02	19.56 12.10 23
24 20.57 12.36 25 21.43 12.88	20.52 12.45 21.37 12.97	20.46 12.54 21.32 13.06	20.41 12.63 24 21.26 13.16 25
26 22.29 13.39	21.37 12.97 22.23 13.49	22.17 13.58	22.11 13.68 26
27 23.14 13.91	23.08 14.01	23.02 14.11	22.96 14.21 27
28 24.00 14.42	23.94 14.53	23.87 14.63	23.81 14.73 28
29 24.86 14.94	24.79 15.04	24.73 15.15	24.66 15.26 29
30 25.71 15.45	25.65 15.56	25.58 15.67	25.51 15.79 30
31 26.57 15.97	26.50 16.08	26.43 16.20	26.36 16.31 31
32 27.45 16.48	27,36 16,60	27.28 16.72	27.21 16.84 32
33 28.29 17.00 34 29.14 17.51	28.21 17.12	28.14 17.24 28.99 17.76	28.06 17.57 33 28.91 17.89 34
35 30.00 18.03	29.07 17.64 29.92 18.16	28.99 17.76 29.84 18.29	29.76 18.42 35
36 30.86 18.54	30.78 18.68	30.70 18.81	30.61 18.94 36
37 31.72 19.06	31.63 19.19	31.55 19.33	31.46 19.47 37
38 32.57 19.57	32.49 19.71	32.40 19.85	32.31 20.00 38
39 33.43 20.09	33.34 20.23	33.25 20.38	33.16 20.52 39
40 34.29 20.60	34.20 20.75	34-11 20.90	34.01 21.05 40
41 35.14 21.12	35.05 21.27	34.96 21.42	\$4.86 21.57 41
42 36.00 21 6S	35.91 21.79	35.81 21.94	35.71 22.10 42
43 36.86 22.15	36.76 22.31 37.62 22.83	36.66 22.47 37.52 22.99	36.57 22.63 43 37.42 23.15 44
44 37.72 22.66 45 38.57 23.18	38.47 23.34	38.37 23.51	37.42 23.15 44 38.27 23.68 45
46 39.43 23.69	39.33 23.86	39.22 24.03	39.12 24.21 46
47 40.29 24.21	40.18 24.38	40.07 24.56	39.97 24.73 47
48 41.14 24.72	41.04 24.90	40.93 25.08	40.82 25.26 48
49 42.00 25.24	41.89 25.42	41.78 25.60	41.67 25.78 49
50 42.86 25.75	42.75 25.94	42.63 26.12	42.52 26.31 50
Dep. Lat.	Dep. Lat.	Dep. Lat.	Dep. Lat. 5
DI 59 Deg	583 Deg.	581 Deg.	581 Deg. 0
	of the late of the	THE RESERVE AND ADDRESS OF THE PARTY OF THE	The second secon

The second second	The second second	THE RESERVE	0
31 Deg.	31 Deg	311 Deg	313 Deg.   D
Lat. Dep.	Lat. Dep.	Lat.   Dep.	Lat. Dep. 2
51 43.72 26.27	43.60 26.46	43.48 26.65	43:37 26.84 51
52 44.57 26.78	44.46 26.98	44.34 27.17	44.22 27.36 52
53 45.43 27.30	45.31 27.49	44.34 27.17 45.19 27.69	45.07 27.89 53
54 46.29 27.81	46.17 28.01	46.04 28.21	45.07 27.89 53 45.92 28.42 54
55 47.14 28.33	47.02 28.53	46.90 28.74	46.77 28.94 55
56 48.00 28.84	47.88 29.05	47.75 29.26 48.60 29.78	47.62 29.47 56
57 48.86 29.36	48.73 29.57	48.60 29.78	48.47 29.99 57
58 49.72 29.87	49.58 50.09	49.45 30.30	49.32 30.52 58
59 50.57 30.39	50.44 30.61	50.31 30.83	50.17 31.05 59
60 51.43 30.90	51.29 31.13	51.16 31.35	51.02 31.57 60
61 52.29 31.42	52.13 31.65	52.01 31.87	51.87 32.10 61
62 53.14 31.93	53.00 32.16	52.86 32.39 53.72 32.92	52.72 32.63 62
63 54.00 32.45	53.86 32.68 54.71 33.20	53.72 32.92	53.57 33.15 63
64 54.86 32.96	54.71 33.20	54.57 33.44	54.42[33.68] 64
65 55.72 33.48	55.57 33.72	55.42 33.96	55,27 34,20 65
66 56.57 33.99	56.42 34.24		56.1234.73 66 56.9835.26 67
66 56.57 33.99 67 57.43 34.51	57.28 34.76	56.27 34.48 57.13 35.01	56.98 35.26 67
68 58.29 35.02	58.13 35.28	57.98 35.53	57.82 35.78 68
69 59.14 35.54	58.99 35.80	58.83 36.05	58.67 36.31 69
70 60.00 36.05	59.84 36.31	59.68 36.57	59.52 36.83 70
71 60.86 36.57	60.70 36.83	60.54 57.10	60.37 37.36 71
79 61 79 37 08	61.55 37.35	61.39 37.62	61.23 37.89 72
73 62.57 37.60 74 63.43 38.11	62.41 37.87 63.26 38.39	62.24 38.14	62.08 38.41 73
74 63.43 38.11	63.26 38.39	63.10 38.66	62.93 58.94 74
75 64.29 38.63	64.12 38.91	63.95 39.19	63.78 39.47 75
76 65.14 39.14 77 66.00 39.66	64.97 39.43	64.80 39.71	64.63 39.99 76 65.48 40.52 77
77 66.00 39.66	65.83 39.95	65.65 40.23	65.48 40.52 77
78 66.86 40.17	66.68 40.46	66.51 40.75	66.35 41.04 78
79 67.72 40.69	67.54 40.98	67.36 41.28	67.18 41.57 79
80 68.57 41.20	68.39 41.50	68.21 41.80	68.03 42.10 80
81 69.43 41.72	69.25 42.02	69.06 42.32	68.88 42.62 81
82 70.29 42.23	70.10 42.54	69.92 42.84	69.73 43.15 82
83 71.14 42.75	70.96 43.06	70.77 43.37 71.62 43.89	70.58 43.68 83
84 72:00 43:26	71.81 43.58	71.62 43.89	71.43 44.20 84
85 72.86 43.78	72.67 44.10	72.47 44.41	72.28 44.73 85
86 73.72 44.29 87 74.57 44.81	73.52 44.61	73.33 44.93 74.18 45.46	73.13 45.25 86
00/75 42/45 20	74.38 45.13 75.23 45.65	74.18 45.46 75.03 45.98	73.98 45.78 87
88 75.43 45.32 89 76.29 45.84	76.09 46.17	75.88 46.50	74.83 46.31 88 75.68 46.83 89
90 77.15 46.35	76.94 46.69	76.74 47.02	76.53 47.36 90
	the second secon	-	
91 78.00 46.87	77.80 47.21	77.59 47.55	77.38 47.89 91
92 78.86 47.38	78.65 47.73	78.44 48.07	78.23 48.41 92
93 79.72 47.90 94 80.57 48.41	79.51 48.25 80.36 48.76	79.30 48.59 80.15 49.11	79.08 48.94 93 79.93 49.47 94
95 81.43 48.95	81.2249.28	81.00 49.64	80.78 49.99 95
96 82.29 49.44	82.07 49.80	81.85 50.16	81.63 50.52 96
97 83.15 49.96	82.93 50.32	82.71 50.68	82.48 51.04 97
93 84.00 50.47	83.78 50.84	85.56 51:20	83.33 51.57 98
99 84.86 50.99	84.64 51.36	84.41.51.73	84.18.52.10 99
100 85.72 51.50	85.49 51.88	85.26 52.25	85.04 52.62 100
Dep Lat	Dep. Lat.	Dep. Lat.	Dep. Lar.
59 Deg.	1 585 Deg	1 28 Deg	581 Deg.

5 32 Deg. 1	324 Deg	321 Deg. 1	323 Dag   0
PR	Commence of the last of the la		The second second
Lat. Dep.	Lat. Dep.	Lat, Dep.	The Park of the Pa
1 0.85 0.53	0.85 0.55	0.84 0.54	0.84 0.54 1
2 1.70 1.06	1.69 1.07	1.69 1.07	1.68 1.08 2
3 2.54 1.59	2.54 1.60	2.53 1.61	2.52 1.62 3
1 0.85 0.55 2 1.70 1.06 3 2.54 1.59 4 3.39 2.13 5 4.24 2.65 6 5.09 3.18 7 3.94 3.71 8 6.78 4.24	3.38 2.13	3.37 2.15	3.36 2.16 4
5 4.24 2.65	4.23 2.67	4.22 2.69	4.21 2.70 5 5.05 3.25 6
6 5.09 3.18	5.07 3.20	5.06 3.22	5.05 3.25 6
7 5.94 3.71	5.92 3.74	5.90 3.76	5.89 3.79 7
8 6.78 4.24	6.77 4.27	6.73 4.30	6.73 4.33 8
9 7.63 4.77	7.61 4.80	7.59 4.84	7.57 4.87 9
10 8.48 5.30	8.46 5.34	8.43 5.37	8.41 5.41 10
11 9.33 5.83	9.30 5.87	9.28 5.91	9.25 5.95 11
12 10.18 6.36	10.15 6.40	10.12 6.45	10.09 6.49 12
13 11.02 6,89	10.99 6.94	10.96 6.98	10.93 7.03 13
14 11.87 7.42	11.84 7.47	11.81 7.52	11.77 7.57 14
15 12.72 7.95	12.69 8.00	12.65 8.06	12.62 8.11 15
16 13.57 8.48	13.53 8.54	13.49 8.60	13.46 8.66 16
17 14.42 9.01	14.38 9.07	14.34 9.13	14.30 9.20 17
18 15.26 9.54	13.22 9.61	15.18 9.67	15.14 9.74 18
19 16.11 10.07	16.07 10.14	16.02 10.21	15.98 10.28 19
20 16.96 10.60	16,91 10.67	16.87 10.75	16.82 10.82 20
21 17.81 11.13	17.70 11.21	17.71 11.28	17.66 11.36 21
March Street, or other party of the last o	18.61 11.74	18.55 11.82	18.50 11.90 22
22 18.66 11,66 23 19.51 12.19	19.45 12.27	19.40 12.36	19.34 12.44 23
24 20.35 12.72	20.30 12.81	20.24 12.90	20 18 12 98 24
THE RESERVE AND ADDRESS OF THE PARTY OF THE	21.14 13.34	21.08 15.43	21.03 13.52 25
	21.99 13.87	21.93 13.97	
	22.83 14.41		21.87 14.07 26 22.71 14.61 27
27 22.90 14.31 28 23.75 14.84	23.68 14.94	22.77 14.51 23.61 15.04	
	24.53 15.47		
		24.46 15.58	Bindesting of transferred (2000)
30 25.44 15.90	25.37 16.01	25.30 16.12	Statement or property and
31 26.29 16.43	26.22 16.54	26.15 16.66	26.07 16.77 31
32 27.14 16.96	27.06 17.08	26.99 17.19	26.91 17.31 32
33 27.99 17.49	27.91 17.61	27.83 17.73	27.75 17.85 33
34 28 85 18.02	28.75 18.14	28.68 18.27	28,60 18,39 34
35 29.68 18.55	29.60 18.68	29.52 18.81	29.44 18.93 35
36 30.53 19.08	30.45 19.21	30.36 19.34	30.28 19.48 36
37 31.38 19.61	31.29 19.74	31.21 19.88	31.12 20.02 37
38 32.23 20.14	32.14 20.28	32.05 20.42	31.96 20.56 38
39 33.07 20.67	32.98 20.81	32.89 20.95	32.80 21.10 39
40 33.92 21.20	33.83 21.34	33.74 21.49	33.64 21.64 40
41 34.77 21.73	34.67 21.88	34.58 22.03	34.48 22.18 41
4235,6222,26		35.42 22.57	35.32 22.72 42
43 36 47 22 79	36.37 22.95	36.27 23.10	36.16 23.26 43
44 37.31 23.32	37.21.23.48 38.06.24.01	36.27 23.10 37.11 23.64	36.16 23.26 43 37.01 23.80 44
45 38.16 23.85	38.06 24.01	37.95 24.18	37.85 24.34 45
46 39.01 24.38	38.90 24.55	38,80 24.72	38.69 24.88 46
47 39.86 24.91			39.53 25.43 47
48 40.71 25.44	39.75 25.08 40.59 25.61	39.64 25.25 40.48 25.79	40.37 25.97 48
49 41.55 25.97	41.44 26.15	41.33 26.33	41.21 26.51 49
50 42.40 26.50	42.29 26.68	42.17 26.86	42.05 27.05 50
Dep. Lat.	Dep. Lat.	Dep. Lat.	Contract of the last of the la
		The second second	Dep. Lat
58 Deg.	57 Deg.	57 Deg.	574 Deg. 5
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THE RESERVE TO SERVE THE PARTY OF THE PARTY			

U 37 Deg.	371 Deg.	37 Deg.	373 Deg. 0
Lat. Dep.	Lat. Dep.	Lat. Dep.	Lat. Dep. 5
	ASSESSMENT OF TAXABLE PARTY.		Buc Dep.
51 40.73 30.69	40.60 30.87	40.46 31.05	40.35 51.22 51
52 41.53 31.29 53 42.33 31.90	41.39 31.48	41.25 31.66	41.12 31.84 52
53 42.33 31.90	42.19 32.08	42.05 32.26	41.91 32.45 53
54 43.13 32.50	42.98 32.69	42.84 32.87	42.70 33.06 54
55 43.92 33.10	43.78 33.29	43.63 33.48	43.49 33.67 55
56 44.72 33.70	44.58 33.90	44.43 34.09	44.28 34.28 56
57 45.52 34.30	45.37 34.50	45.22 34.70	45.07 34.90 57
58 46.32 34.91	46.17 35.11	46.01 35.31	45.86 35.51 58
59 47.12 35.51	46.96 35.71	46.81 35.92	46.65 36.12 59
60 47.92 36.11	47.76 36.32	47.60 36.53	47.44 36.73 60
61 48.72 36.71	48.56 36.92	48.39 37.13	48.23 37.35 61
62 49.52 37.31	49.35 37.53	49.19 37.74	49.02 37.96 62
63 50.31 37.91	50.15 38.13	49.98 38.35	49.81 38.57 63
64 51.11 38.52	50.94 38.74	50.77 38.96	50.60 39.18 64
65 51.91 39.12	51.74 39.34	50.77 38.96 51.57 39.57	51.39 39.79 65
66 52.71 39.72	52,54 39.95	52.36 40.18	52.19 40.41 66
67 53.51 40.32	53.33 40.55	53.15 40.79	52.98 41.02 67
68 54.31 40.92	54.13 41.16	55.95 41.40	53.77 41.63 68
69 55.11 41.53	54.92 41.77	54.74 42.00	54.56 42.24 69
70 55.90 42.13	55.72 42.37	55.53 42.61	55.35 42.86 70
Control of Street, or other Designation of the last of	56.52 42.98	56.33 43.22	
71 56.70 42.73			56.14 43.47 71
72 57.50 43.33	57.31 43.58	57.12 43.83	56.93 44.08 72
73 58.30 43.93	58.11 44.19	57.91 44.44	57.72 44.69 73
74 59.10 44.53	58.90 44.79	58.71 45.05	58.51 45.30 74
75 59.90 45.14	59.70 45.40	59.50 45.66	59.30 45.92 75
76 60.70 45.74	60.50 46,00	60.29 46.27	60.09 46.53 76
77 61.49 46.34	61.29 46.61	61.09 46.87	60.88 47.14 77
78 62.29 46.94	62.09 47.21	61.88 47.48	61.67 47.75 78
79 63.09 47.54	62.88 47.82	62.67 48.09	62.46 48.37 79
80 63.89 48.15	63.68 48.42	63.47 48.70	63.26 48.98 80
81 64.69 48.75	64.48 49.03	64.26 49.31	64.05 49.59 81
82 65.49 49.35	65.27 49.63	65.05 49.92	64.84 50.20 82
83 66.29 49.95	66.07 50.24	65.85 50.53	65.63 50.81 83
84 67.09 50.55	66.86 50.84	66.64 51.14	66.42 51.43 84
	67.66 51.45	67.43 51.74	67.21 52.04 85
85 67.88 51.15 86 68.68 51.76	68.46 52.06	68.23 52.35	67.21 52.04 85 68.00 52.65 86
87 69.48 52.36	69.25 52.66	69.02 52.96	68.79 53.26 87
88 70.28 52.96	70.05 53.27	69.82 53.57	69.58 53.88 88
89 71.08 53.56	70.84 53.87	70.61 54.18	70.37 54.49 89
90 71.88 54.16	71.64 54.48	71.40 54.79	71.16 55.10 90
91 72.68 54.77	72.44 55.08	72.20 55.40	71.95 55.71 91
92 73.47 55.37	73.23 55.69	72.20 55.40	72.74 56.32 92
92 74 07 55 67		73.78 56.61	73.53 56.94 93
98 74.27 55.97	74.03 56.29	74.58 57.22	
94 75.07 56.57	74.82 56.90		The second second second
95 75.87 57.17 96 76.67 57.77	75.62 57.50 76.42 58.11	75.37 57.83 76.16 58.44	75.12 58.16 95
90 70.07 57.77	77 01 50 71	76.10 36.44	75.91 58.77 96
97 77.47 58.38	77.21 58.71	76.96 59.05	76.70 59.39 97
98 78.27 58.98	78.01 59.32	77.75 59.66	77.49 60.00 98
99 79.06 59.58	78.80 59.92	78.54 60.27 79.34 60.88	78.28 60.61 99
100 79.86 60.18	79.60 60.53		79.07 61.22 100
Dep. Lat.	Dep. Lat.	Dep. Lat.	Dep. Lat. +
53 Deg	525 Deg.	521 Deg.	521 Deg 5
	1 - 6 - 1	1	4-51-

1				_ 4
5 38 Deg.	38 Deg.	381 Deg.	383 Deg.	0
Lat. Dep.	Lat. Dep.	Lat. Dep.	Lat. Dep.	S
1 0.79 0.62	0.79 0.62	0.78 0.62	0.78 0.63	11
2 1.58 1.23	1.57 1.24	1.57 1.24	1.56 1.25	.3
3 2.36 1.85 4 3.15 2.46	2.36 1.86 3.14 2.48	2.35 1.87 3.13 2.49	2.34 1.88 3.12 2.50	3
	3.93 3.10	3.91 3.11	3.90 3.13	4 5 6
5 3.94 3.08	4.71 3.71	4.70 3.74	4.68 3.76	6
7 5.52 4.31	5.50 4.33	5.48 4.36	5.46 4.38	7
8 6.30 4.93	6.28 4.95	6.26 4.98	6.24 5.01	8
9 7.09 5.54	7.07 5.57	7.04 5.60	7.02 5.63	9
10 7.88 6.16	7.85 6.19	7.83 6.23	7.80 6.26	10
11 8.67 6.77 12 9.46 7.39	8.64 6.81	8.61 6.85 9.39 7.47	8.58 6.89 9.36 7.51	11
12 9.46 7.39 13 10.24 8.00	9.42 7.43 10.21 8.05	10.17 8.09	9.36 7.51 10.14 8.14	12
14 11.03 8.62	10.99 8.67	10.96 8.72	10.92 8.76	14
15 11.82 9.23	11.78 9.29	11.74 9.34	11.70 9.39	15
16 12.61 9.85	12.57 9.91	12.52 9.96	12.48 10.01	16
17 IS.40 10.47	13.35 10.52	13.30 10.58	13.26 10.64	17
18 14 18 11.08	14.14 11.14	14.09 11.21 14.87 11.83	14.04 11.27 14.82 11.89	18
19 14.97 11.70	14.92 11.76 15.71 12.38	15.65 12.45	15.60 12.52	19
21 16.55 12.93	16.49 13.00	16.43 13.07	16.38 13.14	21
22 17.34 13.54	17.28 13.62	17.22 13.70	17.16 13.77	22
23 18.12 14.16	18.06 14.24	18.00 14.32	17.94 14.40	23
24 18.91 14.78	18.85 14.86	18.78 14.04	18.72 15.02	24
25 19.70 15.39	19.63 15.48	.19.57 15.56	19.50 15.65	25
26 20.49 16.01	20.42 16.10	20.35 16:19	20.28 16.27	26.
27 21.28 16.62	21.20 16.72	21.13 16.81	21.06 16.90	27
28 22.06 17.24 29 22.85 17.85	21.99 17.33 22.77 17.95	21.91 17.43 22.70 18.05	21.84 17.53 22.62 18.15	20
30 23.64 18.47	23.56 18.57	23.48 18.68	23.40 18.78	30
31 24.43 19.09	24-34 19.19	24.26 19.30	24.18 19.40	31
32 25.22 19.70	25.13 19.81	25.04 19.92	24.96 20.03	32
33 26.00 20.32	25.92 20.43	25.83 20.54	25.74 20.66	33
34 26.79 20.93	26.70 21.05 27.49 21.67	26.61 21.17	26.52 21.28	34
35 27.58 21.55	27.49 21.67	27.39 21.79 28.17 22.41	27.30 21.91	35
3628.3722.16 3729.1622.78	28.27 22.29	28.17 22.41 28.96 23.03	28.08 22.53 28.86 23.16	36
37 29.16 22.78	29.06 22.91	29.74 23.66	29.64 23.79	38
38 29.94 23.40 39 30.73 24.01	29.84 23.53 30.63 24.14	30.52 24.28	30.42 24.41	39
40 31.52 24.63	31.41 24.76	31.30 24.90	31.20 25.04	40
41 32 31 25.24	32.20 25.38	32.09 25.52	31.98 25.66	41
42 33.10 25.86	32.98 26.00	32.87 26.15	32.76 26.29	42
43 33.88 26.47	33.77 26.62	33.65 26.77	33.53 26.91	43
44 34.67 27.09	34.55 27.24 35.34 27.86	34.43 27.39	34.31 27.54	44
45 35.46 27.70 46 36.25 28.32		35.22 28.01 36.00 28.64	35.09 28.17	45
47 37.04 28.94	36.12 28.48 36.91 29.10	36.78 29.26	35.87 28.79 36.65 29.42	47
48 37.82 29.55	37.70 29.72	37.57 29.88	37.43 30.04	48
49 38.61 30.17	38.48 30.34	38.35 30.50	38.21 30.67	49
50 39.40 30.78	39.27 30.95	39.13 31.13	38.99 31.30	50
Dep. Lat.	Dep Lat.	Dep. Lat.	Dep. Lat.	St.
52 Deg.	517 Deg.	511 Deg.	511 Deg.	0
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				= 0
5 33 Deg.	331 Deg.	331 Deg	333 Deg.	D
Lat. Dep.	Lat. Dep.	Lat. Dep.	Lat. Dep.	15
51 42.77 27.78	42.65 27.96	42.53 28.15	42.40 28.33	51
52 43.61 28.32	43.49 28.51	43.36 28.70	43.24 28.89 44.07 29.45	52
53 44 45 28.87	44.32 29.06	44.20 29.25		53
54 45.29 29.41	45.16 29.61	45.03 29.80	44.90 30.00	54
55 46.13 29.96	46.00 30.16	45.86 30.36	45.73 30.56	55
56 46.97 30.50 57 47.80 31.04	46,83 30.70 47.67 31.25	46.70 30.91	46.56 31.11 47.39 31.67	56
58 48.64 31.59	48.50 31.80	47.53 31.46 48.37 32.01	48.23 32.22	58
59 49.48 32.13	49.34 32.35	49.20 32.56	49.06 32.78	59
60 50,32,32.68	50.18 32.90	50.03 33.12	49.89 33.33	60
61 51.16 33.22	51.01 33.45	50.87 33.67	50.72 33.89	61
62 52.00 33.77	51.85 33.99	51.70 34.22	51.55 34.45	62
63 52.84 34.31	52.69 34.54	52.53 34.77	52.38 35.00	63
64 53.67 34.86	53.52 35.09	53.37 35.32	5 .21 35.56	64
65 54.51 35.40	54.36 35.64	54.20 35.88	54.05 36.11	65
66 55.35 35.95 67 56.19 36.49	55.19 36.19 56.03 36.74	55.04 36.43	54.88 36.67 55.71 37.22	66
68 57.03 37.04	56.87 37-28	55.87 36.98 56.70 37.53	56.54 37.78	68
69 57.87 37.58	57.70 37.83	57 54 38 08	57.37 38.33	69
70 58.71 38.12	58.54 38.38	58.37 38.64	58.20 38.89	70
71 59.55 38.67	59.38 38.93	59.21 39.19	59.03 39.45	71
7260.3839.21	60.21 39.48	60 04 39.74	59.87 40.00	72
73 61.22 39.76	61.05 40.03	60.87 40.29	60.70 40.56	73
74 62.06 40.30	61.89 40.57	61.71 40.84	61.53 41.11	74
75 62.90 40.85	62.72 41.12	62.54 41.40	62.36 41.67	75
76 63.74 41.39 77 64.58 41.94	63.56 41.67 64.39 42.22	63.38 41.95	63.19 42.22	76
77 04.58 41.94	65.23 42.77	64.21 42.50	64.02 42.78 64.85 43.33	77
78 65.42 42.48 79 66.25 43.03	66.07 43.32	65.04 43.05 65.88 43.60	65.69 43.89	78
80 67.09 43.57	66.90 43.86	66.71 44.15	66.52 44.45	80
81 67.93 44.12	67.74 44.41	67.54 44.71	67.55 45.00	81
89 68.77 44.66	68.58 44.96		68.18 45.56	82
82 68.77 44.66 83 69.61 45.20	69.41 45.51	68.38 45.26 69.21 45.81	69.01 46.11	83
84 70.45 45.75	70.25 46.06	70.05 46.36	69.84 46.67	84
85 71.29 46.29	71.08 46.60	70.88 46.91	70.67 47.22	85
86 72.13 46.84	71.92 47.15	71.71 47.47	71.51 47.78	86
87 72.96 47.38 88 73.80 47.93	72.76 47.70 73.59 48:25	72.55 48.02 73.38 48.57	72.34 48.33 73.17 48.89	87
89 74.64 48.47	74.43 48.80	74.22 49.12	74.00 49.45	89
90 75.48 49.02	75.27 49.35	75.05 49.67	74.83 50.00	90
91 76.32 49.56	76.10 49.89	75.88 50.23	75.66.50.56	91
92 77.16 50.11	76.94 50.44	76.72 50.78	76.50 51.11	92
93 78.00 50.65	77.77 50.99	77.55 51.33	77.33 51.67	93
94 78.83 51.20	78.61 51.54	78.39 51.88	78.16 52.22	94
95 79.67 51.74	79.45 52.09	79.22 52.43	78.99 52.78	95
96 80.51 52.29	80.28 52.64	80.05 52.99	79.82 53.33	96
97 81.35 52.83 98 82.19 53.37	81.12 53.18 81.96 53.73	80.89 53.54 81.72 54.09	80.65 53.89 81.48 54.45	97 98
99 83.03 53.92	82.79 54.28	82.55 54.64	82.32 55.00	99
100 83.87 54.46	83.63 54.83	83.39 55.19	83.15 55.56	
Day Tat	Dep. Lat.	Dep. Lat.	Dep. Lat.	1
57 Deg.		561 Deg.		118
DIST Deg.	30% Deg. 1	20% Deg.	laof negi	P
	-			- 4

		THE REAL PROPERTY.	- 3
5 S9 Deg	39 Deg.	391 Deg.	393 Deg   0
Lat. Dep.	Lat. Dep.	Lat. Dep.	Lat. Dep. 4
1 0.78 0.63	0.77 0.63	0.77 0.64	0.77 0.64 1
1 0.78 0.63 2 1.55 1.26 3 2.33 1.89	1.55 1.27	1.54 1.27	1.54 1.28 2
3 2.33 1.89	2.32 1.90	2.31 1.91	2.31 1.92 3
4 3.11 2.52. 5 3.89 3.15 6 4.66 3.78	3.10 2.53	3.09 2.54	3.08 2.56 4 3.84 3.20 5 4.61 3.84 6 5.38 4.48 7 6.15 5.12 8 6.92 5.75 9
5 3.89 3.15	3.87 3.16 4.65 3.80	3.86 3.18	3.84 3.20 5
	5.42 4.43	4.63 3.82 5.40 4.45	4.61 3.84 6 5.38 4.48 7
7 5.44 4.41 8 6.22 5.03	6.20 5.06	6.17 5.09	6.15 5.12 8
1 9 6 99 5 66	6.97 5.69	6.94 5.72	6.92 5.75 9
10 777 6.29	7.74 6.33	7.72 6.36	7.69 6.39 10
11 8.55 6.92	8.52 6.96	8.49 7.00	8.46 7.03 11
12 9.33 7.55	9.29 7.59	9.26 7.63	9.23 7.67 12
13 10.10 8.18	10.07 8.23	10.03 8.27	9.99 8.31 13
14 10.88 8.81	10.84 8.86	10.80 8.91	10.76 8.95 14
15 11.66 9.44	11.62 9.49	11.57 9.54	11.53 9.59 15
16 12.43 10.07	12.39 10.12	12.35 10.18	12.30 10.23 16
17 13.21 10.70 18 13.99 11.33	13.16 10.76 13.94 11.39	13.12 10.81	13.07 10.87 17 13.84 11.51 18
19 14.77 11.96	14.71 12.02	13.89 11.45 14.66 12.09	14.61 12.15 19
20 15.54 12.59	15.49 12.65	15.43 12.72	15.38 12.79 20
21 16.32 13.22	16,26 13.29	16.20 13.36	16.15 13.43 21
22 17.10 13.84	17.04 13.92	16.98 13.99	16.91 14.07 22
23 17.87 14.47	17.81 14.55	17.75 14.63	17.68 14.71 23
24 18.65 15.10	18.59 15.18	18.52 15.27	18.45 15.35 24
25 19.43 15.73	19.36 15.82	19.29 15.90	19.22 15.99 25
26 20.21 16.36	20.13 16.45	20.06 15.54	19:99 16.63 26
27 20.98 16.99	20.91 17.08	20.83 17.17	20.76 17.26 27
28 21.76 17.62 29 22.54 18.25	21.68 17.72	21.61 17.81	21.53 17.90 28
29 22.54 18.25 30 23.31 18.88	22.46 18.35 23.23 18.98	22.38 18.45	22.30 18.54 29
		23.15 19.08	23.07 19.18 30
31 24.09 19.51 32 24.87 20.14	24.01 19.61 24.78 20.25	23.92 19.72 24.69 20.35	23.83 19.82 31 24.60 20.46 32
33 25.65 20.77	25.55 20.88	25.46 20.99	25.37 21.10 33
34 26.42 21.40	26.33 21.51	26.24 21.63	26.14 21.74 34
35 27.20 22.03	27.10 22.14	27.01 22.26	26.91 22.38 35
36 27.98 22.66	27.88 22.78	27.78 22.90	27 68 23.02 36
37 28.75 23.28	28.65 23.41	28.55 23.53	28.45 23.66 37
38 29.53 23 91	29.43 24.04	29.32 24.17	29.22 24.30 38
39 30.31 24.54	30.20 24.68	30.09 24.81	29.98 24.94 39
40 31.09 25.17	30.98 25.31 31.75 25.94	30.86 25.44	30.75 25.58 40
41 31.86 25.80	31.75 25.94	31.64-26.08	31.52 26.22 41
42 32.64 26.43 43 33.42 27.06	32.52 26.57 33.30 27.21	32.41 26.72 33.18 27.35	32.29 26.86 42 33.06 27.50 43
44 34.19 27.69	34.07 27.84	33.95 27.99	33.83 28.14 44
4534.9728.32	34.85 28.47	34.72 28.62	34.60 28.77 45
46 35.75 28.95	34.85 28.47 35.62 29.10	35.49 29.26	35.37 29.41 46
47 36.53 29.58	36.40 29.74	36.27 29.90	36.14 30.05 47
48 37.30 30.21	37.17 30.37	37.04 30.53	36.90 30.69 48
49 38.08 30.84	37.95 31.00	37.81 31.17	37.67 31.33 49
50 38.86 31.47	38.72 31.64	38,58 51.80	38.44 31.97 50
Dep. Lat.	Dep. Lat.	Dep. Lat.	Dep. Lat. to
51 Deg.	503 Deg.	501 Deg.	501 Deg.
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S	h				2
51 39.63 32.10 39.49 32.27 39.35 32.44 39.21 32.61 51 52.40.41 32.72 40.27 32.90 40.12 33.08 59.98 33.25 52 43.41.19 33.35 41.04 33.53 40.90 33.71 40.75 33.89 53 54.41.97 33.98 41.82 34.17 41.67 34.35 41.52 34.53 54 55 42.74 34.61 42.59 34.80 42.44 34.98 42.29 35.17 55 57 44.30 35.87 44.14 36.06 43.98 36.26 43.82 36.45 57 44.30 35.87 44.14 36.06 43.98 36.26 43.82 36.45 57 44.90 33.713 45.69 37.33 45.59 37.53 45.69 37.33 45.69 37.33 45.59 37.53 45.69 37.33 45.69 37.33 45.59 37.53 45.69 37.33 45.59 37.53 45.36 37.73 59 60 46.63 37.76 46.46 37.96 46.40 37.96 46.63 37.76 46.46 37.96 48.01 39.23 47.84 39.44 47.67 39.65 62 48.18 39.02 48.01 39.23 47.84 39.44 47.67 39.65 62 48.18 39.02 48.01 39.23 47.84 39.44 47.67 39.65 62 48.18 39.02 48.01 39.23 47.84 39.44 47.67 39.65 62 48.18 39.02 48.01 49.38 40.71 49.21 40.92 64 65 50.51 40.91 50.34 41.13 50.16 41.35 50.64 41.35 66 51.29 41.54 51.11 41.76 50.93 41.98 50.74 42.00 66 51.29 41.54 51.11 41.76 50.93 41.98 50.74 42.00 66 65 52.25 42.79 52.66 43.02 52.47 43.25 52.28 43.48 68 53.25 42.79 52.66 43.02 52.47 43.25 52.28 43.48 68 53.05 44.12 69 70.54 40.40 5 54.21 44.29 54.01 44.53 53.82 44.76 70 71 55.18 44.68 54.98 44.92 54.01 44.53 53.82 44.76 70 71 55.18 44.68 54.98 44.92 54.01 44.53 58.28 44.76 70 71 55.18 44.68 59.69 47.83 58.85 48.09 58.64 83.34 58.60 76 77 59.06 47.83 58.85 48.09 58.64 83.34 58.60 76 78 60.62 49.09 60.40 49.35 60.19 49.61 69.94 56.64 76.39 49.72 61.18 49.98 60.96 50.25 60.74 50.52 79 82 63.73 51.60 63.50 51.88 63.27 52.16 63.04 52.43 82 66.05 53.49 65.28 53.78 65.05 53.15 64.82 53.43 66.89 55.63 68.67 56.61 54.75 67.37 55.06 67.45 55.97 54.07 67.65 60.94 55.72 59.90 69.94 56.64 69.70 56.94 66.25 57.70 67.75 58.89 97.79 57.83 97.73 55.60 47.77 55.88 99.20 49.92 67.75 58.80 97.75 58.80 97.75 58.80 97.75 58.80 97.75 58.80 97.75 58.80 97.75 58.80 97.75 58.80 97.75 58.80 97.75 58.80 97.75 58.80 97.75 58.80 97.75 58.80 97.75 58.80 97.75 58.80 97.75 58.80 97.75 58.80 97.75 58.80 97.75 58.80 97.75 58.80 97.75 58.80 97.75 58.80 97.75 58.80 97.75 58.80 97.75	5 39 Deg.	39 1 Deg.	391 Deg.	393 Deg	UI
5240.41 32.72	Lat. (Dep.	Lat.   Dep.	Lat. Dep.		18
53 441.97 33.35	51 39.63 32.10	39.49 32.27	39.35 32.44	39.21 32.61	51
54 41.97 (33.98)		40.27 32.90		39.98 33.25	52
56   43.52   53.24   43.37   35.43   43.21   35.62   43.06   35.81   56   57   5845.07   36.50   44.91   36.06   44.75   36.89   44.59   37.09   58   59.45.85   37.13   45.69   37.33   45.53   37.53   45.36   37.73   59   60   46.63   37.76   46.46   37.96   46.30   38.16   46.13   38.37   60   47.24   38.50   47.07   38.80   46.90   39.01   61   62   48.18   39.02   48.01   39.23   47.84   39.44   47.67   39.65   62   63.48.96   39.65   48.79   39.86   48.61   40.07   48.44   40.28   63   449.74   40.28   49.56   40.49   49.38   40.71   49.21   40.92   64   65   50.51   40.91   50.34   41.13   50.16   41.35   49.97   41.56   65   66   51.29   41.54   51.11   41.76   50.93   41.98   50.74   42.20   66   67   52.07   42.16   51.88   42.39   51.70   42.62   51.51   42.84   67   68   52.85   42.79   52.66   43.02   52.47   43.25   52.28   43.48   68   69.53.52   43.42   53.43   43.66   53.24   43.89   53.05   44.12   69   57.15   51.84   44.69   54.01   44.53   53.38   24.76   70   70   54.40   44.05   54.21   44.29   54.01   44.53   53.32   44.76   70   71   55.82   47.90   58.08   47.45   57.87   47.71   57.66   47.96   77.59.84   48.46   59.63   48.72   57.10   47.07   56.89   47.32   74   57.51   46.57   57.31   46.82   57.10   47.07   56.89   47.32   74   57.51   46.57   57.31   46.82   57.10   47.07   56.89   47.32   74   57.51   46.57   57.31   46.82   57.10   47.07   56.89   47.32   74   57.51   46.57   57.31   46.82   57.10   47.07   56.89   47.32   74   57.51   46.57   57.31   56.63   48.72   56.53   46.43   56.13   46.68   73   74.55   59.66   49.09   60.49   49.35   60.19   49.61   59.97   49.87   80   62.17   50.35   61.95   50.62   61.73   50.90   61.51   51.16   80   62.95   50.97   62.73   51.25   62.28   51.79   81   63.29   50.97   63.81   50.75   59.60   60.70   56.94   60.90   50.94   50.95   50.55   50.55   50.55   50.55   50.55   50.55   50.55   50.55   50.55   50.55   50.55   50.55   50.55   50.55   50.55   50.55   50.55   50.55   50.55   50.55   50.55   50.55   50.55   50.55   50.55   50.55		41.04 33.53			
56   43.52   53.24   43.37   35.43   43.21   35.62   43.06   35.81   56   57   5845.07   36.50   44.91   36.06   44.75   36.89   44.59   37.09   58   59.45.85   37.13   45.69   37.33   45.53   37.53   45.36   37.73   59   60   46.63   37.76   46.46   37.96   46.30   38.16   46.13   38.37   60   47.24   38.50   47.07   38.80   46.90   39.01   61   62   48.18   39.02   48.01   39.23   47.84   39.44   47.67   39.65   62   63.48.96   39.65   48.79   39.86   48.61   40.07   48.44   40.28   63   449.74   40.28   49.56   40.49   49.38   40.71   49.21   40.92   64   65   50.51   40.91   50.34   41.13   50.16   41.35   49.97   41.56   65   66   51.29   41.54   51.11   41.76   50.93   41.98   50.74   42.20   66   67   52.07   42.16   51.88   42.39   51.70   42.62   51.51   42.84   67   68   52.85   42.79   52.66   43.02   52.47   43.25   52.28   43.48   68   69.53.52   43.42   53.43   43.66   53.24   43.89   53.05   44.12   69   57.15   51.84   44.69   54.01   44.53   53.38   24.76   70   70   54.40   44.05   54.21   44.29   54.01   44.53   53.32   44.76   70   71   55.82   47.90   58.08   47.45   57.87   47.71   57.66   47.96   77.59.84   48.46   59.63   48.72   57.10   47.07   56.89   47.32   74   57.51   46.57   57.31   46.82   57.10   47.07   56.89   47.32   74   57.51   46.57   57.31   46.82   57.10   47.07   56.89   47.32   74   57.51   46.57   57.31   46.82   57.10   47.07   56.89   47.32   74   57.51   46.57   57.31   46.82   57.10   47.07   56.89   47.32   74   57.51   46.57   57.31   56.63   48.72   56.53   46.43   56.13   46.68   73   74.55   59.66   49.09   60.49   49.35   60.19   49.61   59.97   49.87   80   62.17   50.35   61.95   50.62   61.73   50.90   61.51   51.16   80   62.95   50.97   62.73   51.25   62.28   51.79   81   63.29   50.97   63.81   50.75   59.60   60.70   56.94   60.90   50.94   50.95   50.55   50.55   50.55   50.55   50.55   50.55   50.55   50.55   50.55   50.55   50.55   50.55   50.55   50.55   50.55   50.55   50.55   50.55   50.55   50.55   50.55   50.55   50.55   50.55   50.55   50.55	54 41.97 33.98		41.67 34.35		
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52 39.24 34.12	39.10 34.29	38.95 34.46	38.79 34.63 -52	a
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54 40.75 35.43	40.60 35.60	40.44 35.78	40.29 35.96 54	ı
55 41.51 36.08 56 42.26 36.74	42.10 36.92	41.19 36.44 41.94 37.11	41.03 36.62 55 41.78 37.29 56	1
57 43.02 37.40	42.85 37.58	42.69 37.77	42.53 37.96 57	ı
58 43.77 38.05	43.61 38.24	43.44 38.43		П
58 45.77 38.05 59 44.53 38.71	44.36 38.90	44.19 39.09	44.02 39.29 59	I
60 45.28 39.36	45.11 39.56	44,94 39.76	44.76 39.95 60	H
61 46.04 40.02	45.86 40.22	45.69 40.42	45.51 40.62 61	I
62 46.79 40.68	46.61 40.88	46.44 41.08	46.26 41.28 62	H
63 47.55 41.33	47.37 41.54	47.18 41.75	47.00 41.95 63	H
64 48.30 41.99 65 49.06 42.64	48.12 42.20	47.93 42.41 48.68 45.07	47.75 42.62 64 48.49 43.28 65	1
66 49.81 43.30	48.87 42.86 49.62 43.52	49.43 43.73	49.24 43.95 66	1
67 50.57 43.96	50.37 44.18	50.18 44.40	49.99 44.61 67	
68 51.32 44.61	51.13 44.84	50.93 45.06	50.73 45.28 68	H
69 52.07 45.27	51.88 45.49	51.68 45.72	51,48 45.95 69	1
70 52.83 45.92	52.63 46.15	52.43 46.38		ı
71 53.58 46.58	53.38 46.81	53.18 47,05		I
72 54.34 47.24	54.13 47.47	53.92 47.71		H
73 55.09 47.89	54.88 48.13	54.67 48.37	54,46 48.61 73	ì
74 55.85 48,55 75 56.60 49.20	55.64 48.79 56.39 49.45	55.42 49.03 56.17 49.70		A
76 57.36 49.86	57.14 50.11	56.92 50.36	55.95 49.94 75 56.70 50.61 76	ı
77 58.11 50.52	57.89 50.77		57.45 51.27 77	I
78 58.87 51.17	58.64 51.43	57.67 51.02 58.42 51.68	58.19 51.94 78	I
79 59.62 51.83	59.40 52.09	59.17 52.35	58.94 52.60 79	i
80 60.38 52.48	60.15 52.75	59.92 53.01	59.68 53.27 80	1
81 61.13 53.14	60.90 53.41	60.67 53.67	60.43 53.94 81	I
82 61.89 53.80	61.65 54.07	61.41 54.33	61.18 54.60 82	1
83 62.64 54.45	62.40 54.73	62.16 55.00	61.92 55.27 83	H
84 63.40 55 11	63.15 55.38	62.91 55.66		ı
85 64.15 55.76 86 64.90 56.42	63.91 56.04 64.66 56.70	63.66 56.32 64.41 56.99		H
87 65.66 57.08	65.41,57.36	65.16 57.65	64.91 57.93 87	I
88 66.41 57.73	66.18 58.02	65.91 58.31	65.65 58.60 88	H
89 67.17 58.39	66.91 58.68	66.66 58.97		
90 67.92 59.05	67.67 59.34	67.41 59.64		1
91 68.68 59.70	68.42 60.00	68.15 60.30		1
92 69.43 60.36	69.17 60.66	68.90 60.96		
93 70.19 61.01	69.92 61.32	69.65 61.62		
94 70.94 61,67 95 71.70 62.33	70.67 61.98 71.42 62.64	70.40 62.29 71.15 62.95	70.13 62.59 94 70.88 63.26 95	
96 72.45 62.98	72.18 63.30	71.13 62.93	71.62 63.92 96	ı
97 73.21 63.69	72.93 63.96	72.65 64.27	72.37 64.59 97	۱
98 73.96 64.29	73.68 64.62	73.40 64.94	73.11 65.26 98	ı
99 74.72 64.95	74.43 65.28	74.15 65.60	73.86 65.92 99	
100 75.47 65.61	75.18 65.93	74.90 66.26	74.61 66.59 100	
Dep. Lat.	Dep. Lat.	Dep. Lat	Dep. Lat. 5	1
49 Deg	483 Deg.	481 Deg.	481 Deg. 0	I
			-	2

37 Deg.	371 Deg.	37½ Deg	373 Deg   0
I.at. Dep.	Lat. Dep.	Lat Dep.	Lat. Dep. 5
1 0.80 0.60	0.80 0.61	0.79 0.61	0.79 0.61
2 1.60 1.20	1.59 1.21	1.59 1.22	1.58 1.22 2
3 2.40 1.81	2.39 1.82	2.38 1.83	2.37 1.84 3
4 3.19 2.41 5 3.99 3.01	3.18 2.42 3.98 3.03	3.17 2.43 3.97 3.04	3.16 2.45 4 3.95 3.06 5
5 3.99 3.01 6 4.79 3.61	4.78 3.63	4.76 3.65	4.74 3.67 6
7 5.59 4.21	5.57 4.24	5.55 4.26	5.53 4.29 7
8 6.39 4.81	6.37 4.84	6.35 4.87	6.33 4.90 8
9 7.19 5.42	7.16 5.45	7.14 5.48	7.12 5.51 9
10 7.99 6,02	7.96 6.05	7.93 6.09	7.91 6.12 10
11 8.78 6.62 12 9.58 7.22	8.76 6.66 9.55 7.26	8.73 6.70 9.52 7.31	8.70 6.73 11 9.49 7.35 12
13 10.38 7.82	9.55 7.26 10.35 7.87	10.31 7.91	10.28 7.96 13
14 11.18 8.43	11.14 8.47	11.11 8.52	11.07 8.57 14
15 11.98 9.03	11.94 9.08	11.90 9.13	11.86 9.18 15
16 12.78 9.63 17 13.58 10.23	12.74 9.68	12.69 9.74 13.49 10.35	12.65 9.80 16
17 13.58 10.23 18 14.38 10.83	13.53 10.29 14.33 10.90	14.28 10.96	13.44 10.41 17 14.23 11.02 18
19 15.17 11.43	15.12 11.50	15.07 11.57	15.02 11.63 19
20 15.97 12.04	15.92 12.11	15.87 12.18	15.81 12.24 20
21 16.77 12.64	16.72 12.71	16.66 12.78	16.60 12.86 21
22 17.57 13.24	17.51 13.32	17.45 13.39	17.40 13.47 22
23 18.37 13.84	18.31 13.92	18.25 14.00 19.04 14.61	18.19 14.08 23
24 19.17 14.44 25 19.97 15.05	19.10 14.53	19.83 15.22	18.98 14.69 24 19.77 15.31 25
26 20.76 15.65	20.70 15.74	20.63 15.83	20.56 15.92 26
27 21.56 16.25	21. 9 16.34	21.42 16.44	21.35 16.53 27
28 22.36 16.85	22.29 16.95	22.21 17.05	22.14 17.14 28
29 23.16 17.45	23.08 17.55	23.01 17.65 23.80 18.26	22.98 17.75 29
30 23.96 18.05	23.88 18.16 24.68 18.76	24.59 18.87	23.72 18.37 30
31 24.76 18.66 32 25.56 19.26	24.08 18.70	25.39 19.48	24.51 18.98 31 25.30 19.59 32
53 26.35 19.86	25.47 19.37 26.27 19.97	26.18 20.09	26.09 20.20 33
34 27.15 20.46	27.06 20.58	26.97 20.70	26.88 20.82 34
35 27.95 21.06	27.86 21.19	27.77 21.31	27.67 21.43 35
36 28.75 21.67	28.66 21.79 29.45 22.40	28.56 21.92 29.35 22.52	28.46 22.04 36
37 29.55 22.27 38 30.35 22.87	30.25 23.00	30.15 23.13	29.26 22.65 37 30.05 23.26 38
39 31.15 23.47	31.04 23.61	30.94 23.74	30.84 23.88 39
40 31.95 24.07	31.84 24.21	31.73 24.35	31.63 24.49 40
41 32.74 24.67	32.64 24.82	32.53 24.96	32.42 25.10 41
42 33.54 25.28	33.43 25.42	33.32 25.57	33.21 25.71 42
43 34.34 25.88 44 35.14 26.48	34.23 26.03 35.02 26.63	34.11 26.18 34.91 26.79	34.00 26.33 43 34.79 26.94 44
45 35.94 27.08	35.82 27.24	35.70 27.39	
46 36.74 27.68	36.62 27:84	36.49 28.00	36.37 28.16 46
47 37.54 28.29	37.41 28.45	37.29 28.61	37.16 28.77 47
4838.5328.89	38.21 29.05	38.08 29.22	37.95 29.39 48 38.74 30.00 49
49 39.13 29.49 50 39.93 30.09	39.00 29.66	38.87 29.83 59.67 30.44	38.74 30.00 49 39.53 30.61 50
Dep. Lat.	Dep. Lat.	Dep. Lat.	Dep Lat.
2	523 Deg.	52 Deg.	521 Deg. 0
2 53 Deg.	Jag Deg.	beg. I	ast DeRild
A STATE OF THE PARTY OF THE PAR	Name and Address of the Owner, where the Owner, which is the Owner, where the Owner, which is the Owner, where the Owner, which is the Owner, which i		-

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5 37 Deg.	371 Deg.	37 Deg.	373 Deg.	5
Lat. Dep.	Lat. Dep.	Lat. Dep.	Lat. Dep.	35
51 40.73 30.69	40.60 30.87	40.46 31.05	40.33 51.22	51
52 41.53 31.29	41.39 31.48	41.25 31.66	41.1231.84	52
53 42.33 31.90 54 43.13 32.50	42.19 32.08 42.98 32.69	42.05 32.26 42.84 32.87	41.91 32.45 42.70 33.06	53
55 43.92 33.10	43.78 33.29	43.63 33.48	43.49 33.67	55
56 44.72 33.70	44.5833.90	44.43 34.09	44.28 34.28	56
57 45.52 34.30	45.37 34.50	45.22 34.70	45.07 34.90	57
58 46.32 34.91	46.17 35.11	46.01 35.31	45.86 35.51	58
59 47.12 35.51	46.96 35.71	46.81 35.92	46.65 36.12 47.44 36.73	59 60
60 47.92 36.11	47.76 36.32	48.39 37.13	Charles Street Section 2	-
61 48.72 36.71 62 49.52 37.31	48.56 36.92 49.35 37.53	49.19 37.74	48.23 37.35 49.02 37.96	61 62
63 50.31 37.91	50.15 38.13	49.98 38.35	49.81 38.57	63
64 51.11 38.52	50.94 38.74	50.77 38.96	50.60 39.18	64
65 51.91 39.12	51.74 39.34	51.57 39.57	51.39 39.79	65
66 52.71 39.72	52,54 39.95	52.36 40.18	52.19 40.41	66
67 53.51 40.32	53.33 40.55 54.13 41.16	53.15 40.79 53.95 41.40	52.98 41.02 53.77 41.63	68
68 54.31 40.92 69 55.11 41.53	54.92 41.77	54.74 42.00	54.56 42.24	69
70 55.90 42.13	55.72 42.37	55.53 42.61	55.35 42.86	70
71 56.70 42.73	56.52 42.98	56.33 43.22	56.14 43.47	71
72 57.50 43.33	57.31 43.58	57.12 43.83	56.93 44.08	72
73 58.30 43.93	58.11 44.19	57.91 44.44	57.72 44.69	73
74 59.10 44.53	58.90 44.79	58.71 45.05	58.51 45.30	74
75 59.90 45.14	59.70 45.40	59.50 45.66	59.30 45.92	75
76 60.70 45.74 77 61.49 46.34	60.50 46.00 61.29 46.61	60.29 46.27 61.09 46.87	60.09 46.53 60.88 47.14	76
78 62.29 46.94	62.09 47.21	61.88 47.48	61.67 47.75	77 78
79 63.09 47.54	62.88 47.82	62.67 48.09	62.46 48.37	79
80 63.89 48.15	63.68 48.42	63.47 48.70	63.26 48.98	80
81 64.69 48.75	64.48 49.03	64.26 49.31	64.05 49.59	81
82 65.49 49.35	65.27 49.63	65.05 49.92	64.84 50.20	82
83 66.29 49.95	66.07 50.24	65.85 50.53	65.63 50.81	83
84 67.09 50.55	66.86 50.84 67.66 51.45	66.64 51.14 67.43 51.74	66.42 51.43 67.21 52.04	84 85
85 67.88 51.15 86 68.68 51.76	68.46 52.06	68.23 52.35	68.00 52.65	86
87 69.48 52.36	69.25 52.66	69.02 52.96	68.79 53.26	87
88 70.28 52.96	70.05 53.27	69.82 53.57	69.58 53.88	88
89 71.08 53.56	70.84 53.87	70.61 54.18	70.37 54.49	89
90 71.88 54.16	71.64 54.48	71.40 54.79	71.16 55.10	90
91 72.68 54.77	72.44 55.08	72.20 55.40	71.95 55.71	91
92 73.47 55.37 93 74.27 55.97	73.23 55.69 74.03 56.29	72.99 56.01	72.74 56.32 73.53 56.94	92 93
94 75.07 56.57	74.82 56.90	74.58 57.22	74.32 57.55	94
95 75.87 57.17	75.62 57.50	75.37 57.83	75.12 58.16	95
96 76.67 57.77	76.42 58.11	76.16 58.44	75.91 58.77	96
97 77.47 58.38	77.21 58.71	76.96 59.05	76.70 59.39	97
98 78.27 58.98	78.01 59.32 78.80 59.92	77.75 59.66 78.54 60.27	77.49 60.00 78.28 60.61	98
99 79.06.59.58 100 79.86 60.18	79.60 60.53	79.34 60.88		00
Dep. Lat.	Dep. Lat.	Dep. Lat.	Dep. Lat.	T
53 Deg.	523 Deg.	521 Deg.	521 Deg	is
D 33 Deg	and neg.	1 25 Deg.	1 2 Deg 1	
The second second				1

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C 38 Deg.	381 Deg.	381 Deg.	38 Deg. 0
Lat. Dep.	Lat. Dep.	Lat. Dep	Lat. Dep. 2
1 0.79 0.62	0.79 0.62	0.78 0.62	0.78 0.63 1
2 1.58 1.23	1.57 1.24	1.57 1.24	1.56 1.25 2
3 2.36 1.85 4 3.15 2.46	2.36 1.86 3.14 2.48	2.35 1.87 3.13 2.49	234 1.88 3
	3.14 2.48 3.93 3.10	3.91 3.11	3.12 2.50 4 3.90 3.13 5
5 3.94 3.08 6 4.73 3.69	4.71 3.71	4.70 3.74	4.68 3.76 6
7 5.52 4.31	5.50 4.33	5.48 4.36	5.46 4.38 7
8 6.30 4.93	6.28 4.95	6.26 4.98	6.24 5.01 8
9 7.09 3.54	7.07 5.57	7.04 5.60	7.02 5.63 9
10 7.88 6.16	7.85 6.19	7.83 6.23	7.80 6.26 10
11 8.67 6.77 12 9.46 7.39	8.64 6.81	8.61 6.85	8.58 6.89 11
12 9.46 7.39 13 10.24 8.00	9.42 7.43	9.39 7.47 10.17 8.09	9.36 7.51 12 10.14 8.14 13
14 11.03 8.62	10.99 8.67	10.96 8.72	10.92 8.76 14
15 11.82 9.23	11.78 9.29	11.74 9.34	11.70 9.39 15
16 12.61 9.85 17 13.40 10.47	12.57 9.91	12.52 9.96	12.48 10.01 16
17 13.40 10.47	13.35 10.52	13.30 10.58	13.26 10.64 17
18 14.18 11.08	14.14 11.14	14.09 11.21 14.87 11.83	14.04 11.27 18 14.82 11.89 19
20 15.76 12.31	14.92 11.76 15.71 12.38	15.65 12.45	14.82 11.89 19 15.60 12.52 20
21 16.55 12.93	16.49 13.00	16.43 13.07	16.38 13.14 21
22 17.34 13.54	17.28 13.62	17.22 13.70	17.16 13.77 22
23 18.12 14.16	18.06 14.24	18.00 14.32	17.94 14.40 23
24 18.91 14.78	18.85 14.86	18.78 14.04	18.72 15.02 24
25 19.70 15.39	19.63 15.48	19.57 15.56	19.50 15.65 25
26 20.49 16.01	20.42 16.10	20.35 16.19	20.28 16.27 264
27 21.28 16.62	21.20 16.72	21.13 16.81 21.91 17:43	21.06 16.90 27 21.84 17.53 28
28 22.06 17.24 29 22.85 17.85	21.99 17.33 22.77 17.95	22.70 18.05	22.62 18.15 29
30 23.64 18.47	23.56 18.57	23.48 18.68	23.40 18.78 30
31 24,43 19.00	24 34 19.19	24.26 19.30	24.18 19.40 31
32 25.22 19.70	25.13 19.81	25.04 19.92	24.96 20.03 32
33 26.00 20.32	25.92 20.43	25.83 20:54	25.74 20.66 33
34 26.79 20.93	26.70 21.05	26.61 21.17	26.52 21.28 34
35 27.58 21.55	27.49 21.67	27.39 21.79	27.30 21.91 35
36 28.37 22.16 37 29.16 22.78	28.27 22.29 29.06 22.91	28.17 22.41 28.96 23.03	28.08 22.53 36 28.86 23.16 57
38 29.94 23.40	29.84 23.53	29.74 23.66	29.64 23.79 38
39 30.73 24.01	30.63 24.14	30.52 24.28	30.42 24.41 39
40 31.52 24.63	31.41 24.76	31.30 24.90	31.20 25.04 40
41 32.31 25.24	32.20 25.38	32.09 25.52	31.98 25.66 41
42 33.10 25.86	32.98 26.00	32.87 26.15	32.76 26.29 42
43 33.88 26.47 44 34.67 27.09	33.77 26.62	33.65 26.77 34.43 27.39	38.53 26.91 43
44 34.67 27.09	34.55 27.24	34.43 27.39 35.22 28.01	34.31 27.54 44
46 36.25 28.32	35.34 27.86 36.12 28.48	36.00 28.64	35.09 28.17 45 35.87 28.79 46
47 37.04 28.94	36.91 29.10		36.65 29.42 47
48 37.82 29.55	37.70 29.72	36.78 29.26 37.57 29.88	37.43 30.04 48
49 38.61 30.17	38.48 30.34	38.35 30.50	38.21 30.67 49
50 39.40 30.78	39.27 30.95	39.13 31.13	38.99 31.30 50
Dep. Lat.	Dep Lat.	Dep. Lat.	Dep Lat 5
51 52 Deg.	51 Deg.	511 Deg.	511 Deg. 0
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U 38 Deg.	381 Deg.	381 Deg 1	383 Deg.	UI
Lat.   Dep.	Lat.   Dep.	Lat. Dep.	Lat. Dep.	Dist
51 40.19 31.40	40.05 31.57	39.91 31.75	39.77 31.92	51
52 40.98 32.01	40.84 32.19	40.70 32.37	40.55 32.55	52
53 41.76 32.63	41.62 32.81	41.48 32.99	41.33 33.17 -42.11 33.80	53
54 42.55 33.25	41.62 32.81 42.41 33.43	42.26 33.62	42.11 33.80	54
55 43-34 33.86	43.19 34.05	43.04 34.24	42.89 34.43	55
56 44.13 34.48	43.98 34.67	43.83 34.86	43.67 35.05	56
57 44.92 35.09	44.76 35.29	44.61 35.48	44.45 35.68 45.23 36.30	57
58 45.70 35.71	45.55 35.91 46.33 36.53	45.39 36.11 46.17 36.73	46.01 36.93	58
59 46.49 36.32 60 47.28 36.94	47.12 37.15	46.96 37.35	46.79 37.56	60
	47.90 37.76	47.74 37.97	47.57 38.18	61
61 48.07 37.56 62 48.86 38.17	48.69 38.38	48.52 38.60	48.35 38.81	62
63 40 64 38 70	49 47 39 00	40.32 30.00	49.13 39.43	63
63 49.64 38.79 64 50.43 39.40	49.47 39.00 50.26 39.62	49.30 39.22 50.09 39.84	49.91 40.06	64
65 51.22 40.02	51.05 40.24 51.83 40.86	50.87 40.46	50.69 40.68	65
66 52.01 40.63	51.83 40.86	51.65 41.09	51.47 41.31	66
67 52.80 41.25 68 53.58 41.86	52.62 41.48	52.43 41.71	52.25 41.94	67
68 53.58 41.86	53.40 42.10	53.22 42.33	53.03 42.56	68
69 54.37 42.48	54.19 42.72	54.00 42.95	53.81 43.19 54.59 43.81	69
70 55.16 43.10	54.97 43.34	54.78 43.58		70
71 55.95 43.71	55.76 43.96	55.57 44.20	55.37 44.44	71
72 56.74 44.33	56.54 44.57 57.33 45.19	56.35 44.82	56.15 45.07 56.93 45.69	72 73
73 57.52 44.94 74 58.31 45.56	58.11 45.81	57.13 45.44 57.91 46.07	57.71 46.32	74
75 59.10 46.17	58.90 46.43	58.70 46.69	58.49 46.94	75
76 59.89 46.79	59.68 47.05	59.48 47.31	59.27 47.57	76
	60.47 47.67	60.26 47.93	60.05 48.20	77
77 60.68 47.41 78 61.46 48.02	60.47 47.67 61.25 48.29	61.04 48.56	60.83 48.82	78
79 62.25 48.64	62.04 48.91	61.83 49.18	61.61 49.45	79
80 63.04 49.25	62.83 49.53	62.61 49.80	62.39 50.07	80
81 63.83 49.87	63.61 50.15	63.39 50.42	63.17 50.70	
82 64.62 50.48	64.40 50.77	64.17 51.05	63.95 51.33	
83 65.40 51.10	65.18 51.38	64.96 51.67	64.73 51.95	83
84 66.19 51.72	65.97 52.00	65.74 52.29	65.51 52.58	84 85
85 66.98 52.33 86 67.77 52.95	66.75 52.62 67.54 53.24	66.52 52.91 67.30 53.54	66.29 53.20 67.07 53.83	
87 68.56 53.56	68 32 53 86	68.09 54.16	67 85 54 46	87
88 69.34 54.18	68.32 53.86 69.11 54.48	68.87 54.78	68.63 55.08	88
89 70.13 54.79	69.89 55.10	69.65 55.40	69.41 55.71	89
90 70.92 55.41	70.68 55.72	70.43 56.03	70.19 56.33	90
91 71.71 56.03	71.46 56.34	71.22 56.65	70.97 56.96	
92 72.50 56.64	72.25 56.96	72.00 57.27	71.75 57.58	92
93 73.28 57.26	73.03 57.58	72.78 57.89	72.53 58.21	93
94 74.07 57.87 95 74.86 58.49	73.82 58.19	73.57 58.52	73.31 58.84	
	74.61 58.81	74.35 59.14	74.09.59.46	
96 75.65 59.10 97 76.44 59.72	75.39 59.43 76.18 60.05	75.13 59.76 75.91 60.38	74.87 60.09 75.65 60.71	
98 77.22 60.33	76.18 60.05	75.91 60.38	75.63 60.71	98
99 78.01 60.95	77.75 61.29	77.48 61.63	77 21 61 97	99
100 78.80 61.57	78.53 61.91	78.26 62.25	77.99 62.59	100
Den Lat	Den Lat	Den Lat	Den Lat	1000
50 Dec	513 Dag	51 Deg.	511 Den	is
m 132 Deg.	Il and Deg.	Deg.	1 314 Deg.	
1	-	No. of Lot, House, etc., in case of	1002	-

0	M THAT DROLL TRIBLES.				Į
H	U 39 Deg.	393 Deg.	391 Deg.	392 Dee   0	Ī
ш		-	The second second	THE DEE	
и	Lat. Dep.	Lat. Dep.	Lat. Dep.	Lat. Libert	
	1 0.78 0.63	0.77 0.63	0.77 0.64	0.77 0.64 1	
в	2 1.55 1.26	1.55 1.27	1.54 1.27	1.54 1.28 2	
и	3 2.33 1.89	2.32 1.90 3.10 2.53	2.31 1.91 3.09 2.54	2.31 1,92 3 3.08 2.56 4	
ı	4 3.11 2.52. 5 3.89 3.15	3.87 3.16	3.09 2.54 3.86 3.18	3.84 3.20 5	
ı	6 4.66 3.78	4.65 3.80	4.63 3.82	4.61 3.84 6	
ı	7 5.44 4.41	5.42 4.43	5.40 4.45	5.38 4.48 7	
ı	8 6.22 5.03	6.20 5.06	6.17 5.09	6.15 5.12 8	
	2 1.55 1.26 3 2.33 1.89 4 3.11 2.52, 5 3.89 3.15 6 4.66 3.78 7 5.44 4.41 8 6.22 5.03 9 6.99 5.66	6.97 5.69	6.94 5.72	6.92 5.75 9	
ı	10 7.77 6.29	7.74 6.33	7.72 6.36	7.69 6.39 10	
и	11 8.55 6.92	8.52 6.96	8.49 7.00	8.46 7.93 11	
	12 9.33 7.55	9.29 7.59	9.26 7.63	9.23 7.67 12	
ш	13 19.10 8.18	10.07 8.23	10.03 8.27	9.99 8.31 13	
	14 10.88 8.81	10.84 8.86	10.80 8.91	10.76 8.95 14	
ı	15 11.66 9.44	11,62 9.49	11.57 9.54	11.53 9.59 15	
и	161243 10.07	12.39 10.12	12.35 10.18	12.30 10.23 16	
и	17 13.21 10.70 18 13.99 11.33	13.16 10.76 13.94 11.39	13.12 10.81 13.89 11.45	13.07 10.87 17 13.84 11.51 18	
н	19 14.77 11.96	14.71 12.02	14.66 12.09	14.61 12.15 19	
п	20 15.54 12.59	15.49 12.65	15.43 12.72	15.38 12.79 20	
8	21 16.32 13.22	16.26 13.29	16.20 13.36	16.15 13.43 21	
۰	22 17.10 13.84	17.04 13.92	16.98 13.99	16.91 14.07 22	
ı	23 17.87 14.47	17.81 14.55	17.75 14.63	17.68 14.71 23	
н	24 18.65 15.10	18.59 15.18	18.52 15.27	18.45 15.35 24	
п	25 19.43 15.73	19.36 15.82	19.29 15.90	19.22 15.99 25	
н	26 20.21 16.36	20.13 16.45	20.06 16.54	19.99 16.63 26	
в	27 20.98 16.99	20.91 17.08	20.83 17.17	20.76 17.26 27	
н	28 21.76 17.62	21.68 17.72	21.61 17.81	21.53 17.90 28	
в	29 22.54 18.25 30 23.31 18.88	22.46 18.35	22.38 18.45	22.30 18.54 29	
п	District Street, Square, Squar	23.23 18.98	23.15 19.08	23.07 19.18 30	
п	31 24.09 19.51	24.01 19.61	23.92 19.72	23.83 19.82 31	
н	32 24.87 20.14 33 25.65 20.77	24.78 20.25 25.55 20.88	24.69 20.35 25.46 20.99	24.60 20.46 32 25.37 21.10 33	
п	34 26.42 21.40	26.33 21.51	26.24 21.63	26.14 21.74 34	
ı	35 27.20 22.03	27.10 22.14	27.01 22.26	26.91 22.38 35	
п	36 27.98 22.66	27.88 22.78	27.78 22.90	27.68 23.02 36	
в	37 28.75 23.28	28.65 23.41	28.55 23.53	28.45 23.66 37	
н	38 29.53 23 91	29.43 24.04	29.32 24.17	29.22 24.30 38	
	39 30.31 24.54	30.20 24.68	30.09 24.81	29.98 24.94 39	
	40 31.09 25.17	30.98 25.31	30.86 25.44	30.75 25.58 40	
	41 31.86 25.80	31.75 25.94	31.64 26.08	31.52 26.22 41	
ı	42 32.64 26.43, 43 33.42 27.06	32.52 26.57 33.30 27.21	32.41 26.72 33.18 27.35	32.29 26.86 42	
u	43 33.42 27.05	34.07 27.84	33.18 27.35	33.06 27.50 43 33.83 28.14 44	
в	44 34.19 27.69 45 34.97 28.32	34.85 28.47	33.95 27.99 34.72 28.62	33.83 28.14 44 34.60 28.77 45	
ľ		35.62 29.10	35.49 29.26	35.37 29.41 46	
1	46 35.75 28.95 47 36.53 29.58	35.62 29.10 36.40 29.74	36.27 29.90	36.14 30.05 47	
	48 37.30 30.21	37.17 30.37	37.04 30.53	36,90 30,69 48	
	49 38.08 30.84	37.95 31.00	37.81 31.17	37.67 31.33 49	
1	50 38.86 31.47	38.72 31.64	38.58 \$1.80	38.44 31.97 50	
	Dep. Lat.	Dep. Lat.	Dep. Lat.	Dep. Lat.	
1	51 Deg	503 Deg.	501 Deg.	50 Deg. 0	
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U 39 Deg.	391 Deg.	391 Deg. [	393 Deg   U	1
Lat.   Dep.	Lat.   Dep.	Lat. Dep.	Lat.   Dep. 2	H
51 39.63 32.10	39.49 32.27	39.35 32.44	39.21 32.61 51	ī
52 40.41 32.72	40.27 32.90	40.12 33.08	39.98 33.25 52	и
53 41.19 33.35	41.04 33.53	40.90 33.71	40.75[33.89] 534	ı
54 41.97 33.98	41.82 34.17	41.67 34.35	41.52 34.53 54	D.
55 42.74 34.61	42.59 34.80	42.44 34.98	42.29 35.17 55	A.
56 43.52 35.24	43.37 35.43 44.14 36.06	43.21 35.62 43.98 36.26	43.06 35.81 56	B.
57 44.30 35:87 58 45.07 36.50	44.91 36.70	43.98 36.26 44.75 36.89	43.82 36.45 57 44.59 37.09 58	8
	45.69 37.33	45.53 37.53	45.36 37.73 59	4
59 45.85 37.13 60 46.63 37.76	46.46 37.96	45.53 37.53 46.30 38.16	46.13 38.37 60	Ŋ.
61 47.41 38.39	47.24 38.60	47.07 38.80	46.90 39.01 61	a.
62 48.18 39.02	48.01 39.23	47.84 39.44	47.67 39.65 62	1
63 48.96 39.65	48.79 39.86	48.61 40.07	48.44 40.28 63	ı
64 49.74 40.28	49.56 40.49	49.38 40.71	49.21 40.92 64	A
65 50.51 40.91	50.34 41.13	50.16 41.35	49.97 41.56 65	1
66 51.29 41.54 67 52.07 42.16	51.11 41.76 51.88 42.39	50.93 41.98 51.70 42.62	50.74 42.20 66 51.51 42.84 67	1
68 52.85 42.79	52.66 43.02	52.47 43.25	51.51 42.84 67 52.28 43.48 68	H
69 53 52 43 42		53.24 43.89		n
69 53.52 43.42 70 54.40 44.05	53.43 43.66 54.21 44.29	54.01 44.53	53.05 44.12 69 53.82 44.76 70	A
71 55.18 44.68	54.98 44.92	54.79 45.16	54.59 45.40 71	ı
72 55.95 45.31	55.76 45.55	55.56 45.80	55.36 46.04 72	н
73 56.73 45.94	56.53 46.19	56.33 46.43	56.13 46.68 73	ш
74 57.51 46.57	57.31 46.82	57.10 47.07	56.89 47.32 74	и
75 58.29 47.20	58.08 47.45	57.87 47.71	57.66 47.96 75	Ħ
76 59.06 47.83	58.85 48.09	58.64 48.34 59.42 48.98	58.43 48.60 76	H
77 59.84 48.46 78 60.62 49.09	59.63 48.72 60.40 49.35	60.19 49.61	59.20 49.24 77 59.97 49.88 78	н
79 61.39 49.72	61.18 49.98	60.96 50.25	60.74 50.52 79	Ш
80 62.17 50.35	61.95 50.62	61.73 50.89	61.51 51.16 80	ш
81 62.95 50.97	62.73 51.25	62.50 51.52	62.28 51.79 81	и
82 63.73 51.60	63.50 51.88	63.27 52.16	63.04 52.43 82	н
83 64.50 52.23	64.27 52.51	64.04 52.79	63.81 53.07 83	н
84 65.28 52.86	65.05 53.15	64.82 53.43	64.58 53,71 84	ш
85 66.06 53.49	65.82 53.78	65.59 54.07	65.35 54.35 85	M
86 66.83 54.12 87 67.61 54.75	66.60 54.41 67.37 55.05	66.36 54:70 67.13 55.34	66.12 54.99 86 66.89 55.63 87	в
88 68.39 55.38	68.15 55.68	67.90 55.97	67.66 56.27 88	В
89 69.17 56.01	68.92 56.32	68.67 56.61	68.43 56.91 89	7
90 69.94 56.64	69.70 56.94	69.45 57.25	69.20 57.55 90	1
91 70.72 57.27	70.47 57.58	70.22 57.88	69.96 58.19 91	1
92 71.50 57.90 93 72.27 58.53	71.24 58.21 72.02 58.84	70.99 58.52	70.73 58.83 92	1
93 72.27 58.53	72.02 58.84	71.76 59.16	71.50 59.47 93	
94 73.05 59.16	72.79 59.47	72.53 59.79	72.27 60.11 94	
95 73.83 59.79	73.57 60.11	73.30 60.43	73.04 60.75 95 73.81 61.39 96	1
96 74.61 60.41 97 75.38 61.04	74.34 60.74 75.12 61.37	74.08 61.06	73.81 61.39 96 74.58 62.03 97	
98 76.16 61.67	75.89 62.01		75.35 62.66 98	I
99 76.94 62.30	76.66 62.64	75.62 62.34 76.39 62.97	76.12 63.30 99	
100 77.71 62.93	77.44 63.27	77.16 63.61	76.88 63.94 100	-
Dep. Lat.	Dep. Lat.	Dep. Lat	Dep. Lat.	I
51 Deg.	503 Deg.	501 Deg.	501 Deg.	1
8	Description P. I.	3	9 3 1	1
AL ADDRESS OF THE PARTY OF THE				100

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0 40 Deg.	401 Deg. 1	401 Deg. 1	403 Deg 0
Lar. Dep.	Lat. Dep.	Lat. Dep.	Lat Dep
1 0.77 0.64	0.76 0.65		The state of the s
2 1.53 1.29	1.53 1.29	0.76 0.65 1.53 1.30	0.76 0.65 1 1.52 1.31 2
3 2.30 1.93	2.29 1.94	2.28 1.95	2.27 1.96 3
4 3.06 2.57	3.05 2.58	3.04 2.60	3.03 2.61 4
5 3.83 3.21	3.82 3.23	3.80 3.25	3.79 3.26 5
6 4.60 3.86	4.58 3.88	4.56 3.90	4.55 3.92 6
7 5.36 4.50	5.34 4.52	5.32 4.55	5.30 4.57 7
8 6.13 5.14	6.11 5.17	6.08 5.20	6.06 5.22 8
9 6.89 5.79	6.87 5.82	6.84 5.84	6.82 5.87 9
10 7.66 6.43	7,63 6,46	7.60 6.49	7.58 6.53 10
11 8.43 7.07	8:40 7.11	8.36 7.14	8.33 7.18 11
12 9.19 7.71 13 9.96 8.36	9,16 7.75	9.12 7.79	9.09 7.83 12 9.85 8.49 13
13 9.96 8.36 14 10.72 9.00	9.92 8.40	9.89 8.44	9.85 8.49 13 10.61 9.14 14
15 11.49 9.64	11.45 9.69	10.65 9.09	11.36 9.79 15
16 12.26 10.28	12.21 10.34	12.17 10.39	12.12 10.44 16
17 13.02 10.92	12.97 10.98	12.93 11.04	12.88 11.10 17
18 13.79 11.57	13.74 11.63	13.69 11.69	13.64 11.75 18
19 14.55 12.21	14.50 12.28	14.45 12.34	14.39 12.40 19
20 15.32 12.86	15.26 12.92	15.21 12.99	15.15 13.06 20
21 16.09 13.50	16.03 13.57	15.97 13.64	15.91 13.71 21
22 16.85 14.14	16.79 14.21	16.73 14.29	16.67 14.36 22
23 17.62 14.78	17.55 14.86	17.49 14.94	17.42 15.01 23
24 18.39 15.43	18.32 15.51	18.25 15.59	18.18 15.67 24
25 19.15 16.07	19.08 16.15	19.01 16.24	18.94 16.32 25
26 19.92 16.71	19.84 16.80	19.77 16.89	19.70 16.97 26
27 20.68 17.36	20.61 17.45	20.53 17.54	20.45 17.62 27
28 21.45 18.00	21.37 18.09 22.13 18.74	21.29 18.18 22.05 18.83	21.21 18.28 28 21.97 18.93 29
30 22.98 19.28	22.90 19.38	22.81 19.48	22.73 19.58 30
31 23.75 19.93	23.66 20.03	23.57 20.13	23.48 20.24 31
32 24.51 20.57	24.42 20.68	94 33 90 78	24.24 20.89 32
33 25.28 21.21	25.19 21.32	24.33 20.78 25.09 21.43	25.00 21.54 33
34 26.05 21.85	25.95 21.97	25.85 22.08	25.76 22.19 34
35 26.81 22.50	26.71 22.61	26.61 22.73	26.51 22.85 35
36 27.58 23.14	27.48 23.26 28.24 23.91	27.37 23.38	27.27 23.50 36
37 28.34 23.78		28.13 24.03	28.03 24.15 37
38 29.11 24.43	29.00 24.55	28.90 24.68	28.79 24.80 38
39 29.88 25.07	29.77 25.20	29.66 25.33	29.54 25.46 39
40 30.64 25.71	30.53 25.84	30.42 25.98	30.30 26.11 40
41 31.41 26.35	31.29 26.49	31.18 26.63	31.06 26.76 41
42 32.17 27.00	32.06 27.14	31.94 27.28	31.82 27.42 42
43 32.94 27.64	32.82 27.78	32.70 27.93	32.58 28.07 43 35.33 28.72 44
44 33.71 28.28 45 34.47 28.93	33.58 28.43 34.35 29.08	33.46 28.58 34.22 29.23	35.33 28.72 44 34.09 29.37 45
4635.2429.57	35.11 29.72	34.98 29.87	34.85 30.03 46
47 36.00 30.21	35.87 30.37	35.74 30.52	35.61 30.68 47
48 36.77 30.85	36.64 \$1.01	36.50 31.17	36.36 31.33 48
49 37.54 31.50	37.40 31.66	37.26 31.82	37.12 31.99 49
50 38.30 32.14	38.1632.31	38.02 32.47	37.88 32.64 50
Dep. Lat.	Dep. Lat.	Dep. Lat.	Dep. Lat.
50 Deg.	493 Deg.	491 Deg.	491 Deg 5
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14	And in case of the last		THE RESERVE AND ADDRESS OF THE PERSON NAMED IN

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2 40 Deg.	401 Deg.	401 Deg.	403 Deg. Deg.
Lat. Dep.	Lat. Dep.	Lat Dep	Lat. Dep.
51 39.07 32.78	38.92 32.95	38.78 53.12	38.64 35.29 51
52 39.83 33.42	39.69 33.60	39.54 33.77	39.39 33.94 52
53 40.60 34.07	40.45 34.24	40.30 34.42	40.15 34.60 53
54 41.37 34.71	41.21 34.89	41.06 35.07	40.91 35.25 54 41.67 35.90 55
55 42.13 35.35 56 42.90 36.00	41.98 35.54 42.74 36.18	41.82 35.72 42.58 36.37	41.67 35.90 55 42.42 36.55 56
57 43.66 36.64	43.50 36.83	43.34 37.02	43.18 37.21 57
58 44.43 37-28	44.27 37.48	44.10 37.67	
58 44.43 37.28 59 45.20 37.92	45.03 38.12	44.86 38.32	44.70 38.51 59
60 45.96 38.57	45.79 38.77	45.62 38.97	45,45 39 17 60
61 46.73 39.21	46.50 39.41	46.38 39.62	46.21 39.82 61
62 47.49 39.85	47.32 40.06	47.15 40.27	46.97 40.47 62
63 48.26 40.50	48.08 40.71	47.91 40.92	47.73 41.12 63
64 49.03 41.14 65 49.79 41.78	48.85 41.35	48.67 41.56 49.43 42.21	48.48 41.78 64 49.24 42.43 65
66 50.56 42.42	49.61 42.00 50.37 42.64	50.19 42.86	49.24 42.43 65 50.00 43.08 66
67 51.32 43.07	51.14 43.29	50.95 43.51	50.76 43.73 67
68 52.09 43.71	51.90 43.94	51.71 44.16	51.51 44.39 68
69 52.86 44.35	52.66 44.58	52.47 44.81	52.27 45.04 69
70 53.62 45.00	53.43 45.23	53.23 45.46	53.03 45.69 70
71 54.39 45.64	54.19 45.87	53.99 46.11	53.79 46.35 71
72 55.15 46.28	54.95 46.52	54.75 46.76	54.54 47.00 72
73 55.92 46.92 74 56.69 47.57	55.72 47.17	55.51 47.41	55.30 47.65 73
75 57.45 48.21	56.48 47.81 57.24 48.46	56.27 48.06 57.03 48.71	56.06 48.30 74 56.82 48.96 75
76 58.22 48.85	58.01 49.11	57.79 49.36	56.82 48.96 75 57.57 49.61 76
77 58.99 49.49	58.77 49.75	58.55 50.01	58.33 50.26 77
78 59.75 50.14	59.53 50.40	59.31 50.66	59.09 50.92 78
79 60.52 50.78	60.30 51.04	60.07 51.31	59.85 51.57 79
80 61.28 51.42	61.06 51.69	60.83 51.96	60.61 52.22 80
81 62.05 52.07	61.82 52.34	61.59 52.61	61.36 52.87 81
82 62.82 52.71	62.59 52.98	62.35 53.25	62.12 53.53 82
83 63.58 53.35	63.35 53.63	63.11 53.90	62.88 54.18 83
84 64.35 53.99 85 65.11 54.64	64.11 54.27 64.87 54.92	63.87 54.55 64.63 55.20	63.54 54.83 84 64.39 55.48 85
86 65.88 55.28	65.64 55.57	65.39 55.85	65.15 56.14 86
87 66.65 55.92	66,40 56.21	66.16 56.50	65.91 56.79 87
88 67.41 56.57	67.16 56.86	66.92 57.15	66.67 57.44 88
89 68.18 57.21	67.93 57.50	67.68 57.80	67.42(58.10) - 89
90 68.94 57.85	68.69 58.15	68.44 58.45	68.18 58.75 90
91 69.71 58 49	69.45 58.80	69.20 59.10	68.94 59.40 91
92 70.48 59.14	70.22 59.44	69.96 59.75	69.70 60.05 92
93 71.24 59.78 94 72.01 60.42	70.98 60.09 71.74 60.74	70.72 60.40 71.48 61.05	70.45 60.71 93 71.21 61.36 94
95 72.77 61.06	72.51 61.38	72:24 61:70	71.97 62:01 95
	73.27 62.03	73.00 62.35	72.73 62.66 96
96 73.54 61.71 97 74.31 62.35	74.03 62.67	73.76 63.00	73.48 63.32 97
98 75.07 62.99	74:80 63.52	74.52 53.65	74.24 63.97 98
99 75.84 63.64	75.50 63.97	75.2864.30	75.00 64.62 99
100 76.60 64.28	76,32 64.61	76.0464.94	75.75 65:28 100
Dep Lat,	Dep   Lat.	Dep. Lat.	Dep. Lat. 2
50 Deg.	49% Deg	49 Deg.	49 D B Q
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C 40 Deg.	401 Deg.	401 Deg. 1	403 Deg 01
Lat. Dep.	Lat. Dep.	Lat. Dep.	Lat Dep
1 0.77 0.64	0.76 0.65	0.76 0.65	0.76 0.65 1
2 1.53 1.29	1.53 1.29	1.52 1.30	1.52 1.31 2
3 2.30 1.93	2.29 1.94	2.28 1.95	2.27 1.96 3
4 3.06 2.57	3.05 2.58	3.04 2.60	3.03 2.61 4
5 3.83 3.21	3.82 3.23	3.80 3.25	3.79 3.26 5
	4.58 3.88	4.56 3.90	4.55 3.92 6
6 4.60 3.86 7 5.36 4.50	5.34 4.52	5.32 4.55	5.30 4.57 7
8 5.13 5.14	6.11 5.17	6.08 5.20	6.06 5.22 8
9 6,89 5,79	6.87 5.82	6.84 5.84	6.82 5.87 9
10 7.66 6.43	7.63 6.46	7.60 6.49	7.58 6.53 10
11 8.43 7.07	8.40 7.11	8.36 7.14	8.33 7.18 11
12 9.19 7.71	9.16 7.75	9.12 7.79	9.09 7.83 12
13 9.96 8.36	9.92 8.40	9.89 8.44	9.85 8.49 13
14 10.72 9.00	10.69 9.05	10.65 9.09	10.61 9.14 14
15 11.49 9.64 16 12.26 10.28	11.45 9.69 12.21 10.34	11.41 9.74	11.36 9.79 15 12.12 10.44 16
17 13.02 10.92	12.97 10.98	12.17 10.39 12.93 11.04	12.88 11.10 17
18 13.79 11:57	13.74 11.63	13.69 11.69	13.64 11.75 18
19 14.55 12.21	14.50 12.28	14.45 12.34	14.39 12.40 19
20 15.32 12.86	15.26 12.92	15.21 12.99	15.15 13.06 20
21 16.09 13.50	16.03 13.57	15.97 13.64	15.91 13.71 21
22 16.85 14.14	16.79 14.31	16.73 14.29	16.67 14.36 22
23 17.62 14.78	17.55 14.86	17.49 14.94	17.42 15.01 23
24 18.39 15.43	18.32 15.51	18.25 15.59	18.18 15.67 24
25 19.15 16.07	19.08 16.15	19.01 16.24	18.94 16.32 25
26 19.92 16.71	19.84 16.80	19.77 16.89	19.70 16.97 26
27 20.68 17.36	20.61 17.45	20.53 17.54	20.45 17.62 27
28 21.45 18.00	21.37 18.09	21.29 18.18	21.21 18.28 28
29 22.22 18.64	22.13 18.74	22.05 18.83	21.97 18.93 29
30 22.98 19.28	22.90 19.38	22.81 19.48	22.73 19.58 30
31 23.75 19.93	23.66 20.03	23.57 20.13	23.48 20.24 31
32 24.51 20.57	24.42 20.68	24.33 20.78	24.24 20.89 32
33 25.28 21.21	25.19 21.32	25.09 21.43	25.00 21.54 33
34 26.05 21.85	25.95 21.97	25.85 22.08	25.76 22.19 34
35 26.81 22.50 36 27.58 23.14	26.71 22.61 27.48 23.26	26.61 22.73 27.37 23.38	26.51 22.85 35 27.27 23.50 36
37 28.34 23.78	28.24 23.91	28.13 24.03	28.03 24.15 37
38 29.11 24.45	29.00 24.55	28.90 24.68	28.79 24.80 38
39 29.88 25.07		29.66 25.33	29.54 25.46 39
40 30.64 25.71	29.77 25.20 30.53 25.84	30.42 25.98	30.30 26.11 40
41 31.41 26.35	31.29 26.49	31.18 26.63	31.06 26.76 41
42 32.17 27.00	32.06 27.14	31.94 27.28	31.82 27.42 42
43 32.94 27.64	32.82 27.78	32.70 27.93	32.58 28.07 43
44 33.71 28.28	33.58 28.43	33.46 28.58	33.33 28.72 44
45 34.47 28.93	34.35 29.08	34.22 29.23	34.09 29.37 45
46 35.24 29.57	35.11 29.72	34.98 29.87	34.85 30.03 46
47 36.00 30.21	35.87 30.37	35.74 30.52	35.61 30.68 47
48 36.77 30.85	36.64 31.01	36.50 31.17	36.36 31.33 48
49 37.54 31.50	37.40 31.66	37.26 31.82	37.12 31.99 49
50 38.30 32.14	38.16 32.31	38.02 32.47	37.88 32.64 50
Dep. Lat.	Dep. Lat.	Dep. Lat.	Dep. Lat
50 Deg.	493 Deg.	491 Deg.	491 Deg
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I	5 40 Deg.	401 Deg.	401 Deg.	403 Deg. D
I	Lat. Dep.	Lat. Dep.	Lat. Dep	Lat. Dep. S
ı	51 39.07 32.78	38.92 32.95	38.78 53.12	38.64 55.29 51
ı	52 39.83 33.42	39.69 33.60	39.54 33.77	39.39 33.94 52
ı	53 40.60 34.07	40.45 34.24	40.30 34.42	40.15 34.60 53
ı	54 41.37 34.71 55 42.13 35.35	41.21 34.89 41.98 35.54	41.06 35.07 41.82 35.72	40.91 35.25 54 41.67 35.90 55
ı	56 42.90 36.00	42.74 36.18	42.58 36.37	41.67 35.90 55 42.42 36.55 56
ı	57 43.66 36.64	43.50 36.83	43.34 37.02	43.18 37.21 57
H	58 44.43 37.28	44.27 37.48	44.10 37.67	43.94 37.86 58
I	59 45.20 37.92	45.03 38.12	44.86 38.52	44.70 38.51 59
I	60 45.96 38.57	45.79 38.77	45.62 38.97	45.45 39 17 60
I	61 46.73 39.21	46.56 39.41	46.38 39.62	46.21 39.82 61
П	62 47.49 39.85 63 48.26 40.50	47.32 40.06 48.08 40.71	47.15 40.27 47.91 40.92	46.97 40.47 62 47.73 41.12 63
I	64 49.03 41.14	48.85 41.35	48.67 41.56	47.73 41.12 63 48.48 41.78 64
ı	65 49.79 41.78	49.61 42.00	49.43 42.21	49.24 42.43 65
ı	66 50.56 42.42	50.37 42.64	50.19 42.86	50.00 43.08 66
II	67 51.32 43.07	51.14 43.29	50.95 43.51	50.76 43.73 67
ı	68 52.09 43.71	51.90 43.94	51.71 44.16	51.51 44.39 68
l	69 52.86 44.35 70 53.62 45.00	52.66 44.58 53.43 45.23	52.47 44.81 53.23 45.46	52.27 45.04 69 53.03 45.69 70
I	71 54.39 45.64	54.19 45.87	53.99 46.11	53.79 46.35 71
i	72 55.16 46.28	54.95 46.52	54.75 46.76	54.54 47.00 72
ı	73 55.92 46.92	55.72 47.17	55.51 47.41	55.30 47.65 73
ı	74 56.69 47.57	56.48 47.81	56.27 48.06	56.06 48.30 74
ı	75 57.45 48.21	57.24 48.46	57.03 48.71	56.82 48.96 75
ı	76 58.22 48.85	58.01 49.11	57.79 49.36	57.57 49.61 76
И	77 58.99 49.49 78 59.75 50.14	58.77 49.75 59.53 50.40	58.55 50.01 59.31 50.66	58.33 50.26 77 59.09 50.92 78
ı	79 60.52 50.78	60.30 51.04	60.07 51.31	59.09 50.92 78 59.85 51.57 79
ı	80 61.28 51.42	61.06 51.69	60.83 51.96	60.61 52.22 80
ı	81 62.05 52.07	61.82 52.34	61.59 52.61	61.36 52.87 81
H	82 62.82 52.71	62.59 52.98	62.35 53.25	62.12 53.53 82
ı	83 63.58 53.35	63.35 53.63	63.11 53.90	62.88 54.18 83
١	84 64.35 53.99	64.11 54.27	63.87 54.55	63.54 54.83 84
N	85 65.11 54.64 86 65.88 55.28	64.87 54.92 65.64 55.57	64.63 55.20 65.39 55.85	64.39 55.48 85 65.15 56.14 86
ı	87 66.65 55.92	66.40 56.21	66.16 56.50	65.91 56.79 87
ı	88 67.41 56.57	67.16 56.86	66.92 57.15	66.67 57.44 88
ı	89 68.18 57.21	67.93 57.50	67.68 57.80	67.42 58.10 -89
ı	90 68 94 57 85	68.69 58.15	68.44 58.45	68.18 58.75 90
-	91 69.71 58.49	69.45 58.80	69.20 59.10	68.94 59.40 91
1	92 70.48 59.14	70.22 59.44	69.96 59.75	69.70 60.05 92
1	93 71.24 59.78 94 72.01 60.42	70.98 60.09	70.72 60.40 71.48 61.05	70.45 60.71 93 71.21 61.36 94
1	95 72.77 61.06	72.51 61.38	72:24 61:70	71.97 62.01 95
	96 73.54 61.71	73.27 62.03	73.00 62.35	72.73 62.66 96
	97 74.31 62.35	74.03 62.67	73.76 63.00	73.48 63.32 97
	98 75.07 62.99	74.80 63.32	74.52 63.65	74.24 63.97 98
	99 75.84 63.64	75,36 63.97	75.28 64.30 76.04 64.94	75.00 64.62 99 75.76 65:28 100
	100 76.60 64.28	76.32 64.61		
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1	50 Deg.	493 Deg.	49 Deg.	49 Deg   5
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U 41 Deg.	411 Deg. 1	41 Deg	413 Deg. DI
Z Lat. Dep.	Lat. Dep.	Lat. Dep.	Lat. Dep.
1 0.75 0.66	0.75 0.66	0.75 0.06	0.75 0.67 1
2 1.51 1.31	1.50 1.32	1.50 1.33	1.49 1.33 2
3 2.26 1.97	2.26 1.98	2.25 1.99	2.24 2.00 3
4 5.02 2.62 5 3.77 3.28	3.01 2.64 3.76 3.30	3.00 2.65 3.74 3.31	2.98 2.66 4 3.73 3.33 5
6 4.53 3.94	4.51 3.96	4.49 5.98	4.48 4.00 6
	5.26 4.62	5.24 4.64	5.22 4.66 7
7 5.28 4.59 8 6.04 5.25	6.01 5.27	5.99 5.30	5.97 5.33 8
9 6.79 5.90	6.77 5.93	6.74 5.96	6.71 5.99 9
10 7.55 6.56	7.52 6.59	7.49 6.63	7.46 6.66 10
11 8.30 7.22	8.27 7.25	8.24 7.29	8.21 7.32 11
12 9.06 7.87	9.02 7.91	8.99 7.95	8.95 7.99 12
13 9.81 8.53 14 10.57 9.18	9.77 8.57 10.53 9.23	9.74 8.61 10.49 9.28	9.70 8.66 13
15 11.32 9.84	11.28 9.89	11.23 9.94	11.19 9.99 15
16 12.08 10.50	12.03 10.55	11.98 10.60	11.94 10.65 16
17 12.83 11.15	12.78 11.21	12.73 11.26	12.68 11.32 17
18 13.58 11.81	13.53 11.87	13.48 11.93	13.43 11.99 18
19 14.34 12.47	14.28 12.53	14.23 12.59	14.18 12.65 19
20 15.09 13.12	15.04 13.19	14.98 13.25	14.92 13.32 20
21 15.85 13.78	15.79 13.85	15.73 13.91	15.67 13.98 21
22 16.60 14.43	16.54 14.51	16.48 14.58	16.41 14.65 22
23 17.36 15:09	17.29 15.16 18.04 15.82	17.23 15.24 17.97 15.90	17.16 15.32 23 17.91 15.98 24
25 18 87 16.40	18.80 16.48	18.72 16.57	18.65 16.65 25
26 19.62 17.06	19.55 17.14	19.47 17.23	19.40 17.31 26
27 20.38 17.71	20.30 17.80	20.22 17.89	20.14 17.98 27
28 21.13 18.37 29 21.89 19.03	21.05 18.46 21.80 19.12	20.97 18.55	20.89 18.64 28
	21.80 19.12	21.72 19.22	21.64 19.31 29
30 22.64 19.68	22.56 19.78	22.47 19.88	22.38 19.98 30
31 23.40 20.34	23.31 20.44 24.06 21.10	23.22 20.54	23.13 20.64 31
32 24.15 20.99 53 24.91 21.65	24.06 21.10 24.81 21.76	23.97 21.20 24.72 21.87	23.87 21.31 32
34 25.66 22.31	25 56 22 42	25.46 22.53	24.62 21.97 33 25.37 22.64 34
35 36.41 22 96	25.56 22.42 26.31 23.08	26.21 23.19	26.11 23.31 35
36 27.17 23.62	27.07 23.74	26.96 23.85	26.86 23.97 36
37 27.92 24.27	27 82 24 40	27.71 24.52	27.60 24.64 37
38 28.68 24.93	28.57 25.06 29.32 25.71	28.46 25.18 29.21 25.84	28.35 25.30 38
39 29.43 25.59	29.32 25.71	29.21 25.84	29.10 25.97 59
40 30.19 26.24	30.07 26.37	29.96 26.50	29.84 26.64 40
41 30.94 26.90	30.83 27.03	30.71 27.17	30.59 27.30 41
42 31.70 27.55 43 32.45 28.21	31.58 27.69	31.46 27.83 32.21 28.49	31.33 27.97 42 32.08 28.63 43
44 33.21 28.87	33.08 29.01	32.95 29.16	32.83 29.30 44
45 33.96 29.52	33.83 29.67	32.95 29.16 33.70 29.82	33.57 29.97 45
46 34.72 30.18	34.58 30.33	34.45 30.48	34.32 30.63 46
47 35.47 30.83	35.54 30.99	35.20 31.14	35.06[31.30] 47
48 36.23 31.49	36.09 31.65	35.95 31.81	35.81 31.96 48
49 36.98 32.15 50 37.74 32.80	36.84 32.31	36.70 32.47 37.45 33.13	36.56 32.63 49 37.30 33.29 50
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5 42 Deg.	421 Deg.	42 Deg	423 Deg. D
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51 37.90 34.13	37.75 34.29	37.60 34.46	37.45 34.62 51
52 38.64 34.79	38.49 34.96	38.34 35.13	38.18 35.30 52
53 39.39 35.46	39.23 35.64	39.08 35.81	38.92 35.98 53
54 40.13 36.13	39.97 36.31 40.71 36.98	39.81 36.48	39.65 36.66 54
55 40.87 36.80		40.55 37.16	40:39 37:53 55
56 41.62 37.47 57 42.36 38.14	41.45 37.65 42.19 38.32	41.29 37.83	41.12 38.01 56 41.86 38.69 57
58 43.10 38.81	42.93 39.00	42.02 38.51 42.76 39.18	42.59 39.37 58
59 43.85 39.48	43.67 39.67	43.50 39.86	43.32 40.05 59
60 44.59 40.15	44.41 40.34	44.24 40.54	44.06 40.73 60
61 45.33 40.82	45.15 41.01	44.97 41.21	44.79 41.41 61
62 46.07 41.49	45.89 41.69	45.71 41.89	45.53 42.09 62
63 45.82 42.16	46.63 42.36	46.45 42.56	46.26 42.76 63
64 47.56 42.82 65 48.30 43.49	47.37 43.03	47:19 43:24 47:92 43:91	47.00 43.44 64
65 48.30 43.49	48.11 43.70	47.92 43.91	47.73 44.12 65
66 49.05 44.16	48.85 44.38 49.59 45.05	48.66 44.59	48.47 44.80 66
68 50 53 45 50	50.33 45.72	49.40 45.26 50.13 45.94	49.20 45,48 67 49.93 46.16 68
68 50.53 45.50 69 51.28 46.17	51.07 46.39	50.13 45.94	50.67 46.84 69
70 52.02 46.84	51.82 47.07	51.61 47.29	51.40 47.52 70
71 52.76 47.51	52.56 47.74	52.35 47.97	52.14 48.19 71
72 53.51 48.18	53.30 48.41	53.08 48.64	52.87 48.87 72
73 54.25 48.85	54.04 49.08	53.82 49.32	53.61 49.55 73
74 54.99 49.52	54.78 49.76	54 56 49 99	54.34 50.23 74
75 55.74 50.18	55.52 50.43	55.30 50.67	55.07 50.91 75
76 56 48 50.85	56.26 51.10	56.03 51.34	55.81 51.59 76
77 57.22 51.52	57.00 51.77	56.77 52.02	56.54 52.27 77
78 57.97 52.19 79 58.71 52.86	57.74 52.44 58.48 53.12	57.51 52.70 58.24 53.37	57.28 52.95 78 58.01 53.63 79
80 59.45 53.53	59.22 53.79	58.98 54.05	58.75 54.30 80
81 60.19 54.20	59.96 54.46	59.72 54.72	59.48 54.98 81
82 60.94 54.87	60.70 55.13	60.46 55.40	60.21 55.66 82
83 61.68 55.54	61.44 55.81	61.19 56.07	60.95 56.34 83
84 62.42 56.21	62.18 56.48	61.93 56.75	61.68 57.02 84
85 63.17 56.88 86 63.91 57.55	62.92 57.15	62.67 57.43	62.42 57.70 85
	63.66 57.82	63.41 58.10	63.15 58.38 86
87 64,65 58.21	64.40 58.50	64.14 58.78	63.89 59.06 87
88 65.40 58.88 89 66.14 59.55	65.14 59.17 65.88 59.84	64.88 59.45	64.62 59.73 88 65.35 60.41 89
90 66.88 60.22	66.62 60.51	65.62 60.13	66.09 61.09 90
91 67.63 60.89	67.36 61.19	67.09 61.48	66.82 61.77 91
92 68.37 61.56	68.10 61.86	67.83 62.15	67.56 62.45 92
93 69.11 62.23	68.84 62.53	68.57 62.83	68.29 63.13 93
94 69.86 62.90	69.58 63.20	69.30 63.51	69.03 63,81 94
95 70.60 63.57	70.32 63.87	70.04 64.18 70.78 64.86	69.76 64.49 95
96 71.34 64.24	71.06 64.55	70.78 64.86	70.49 65.16 96
97 72.08 64.91	71.80 65.22	71.52 65.53	71.23 65.84 97
98 79.83 65.57 99 73.57 66.24	72.54 65.89	72.25 66.21	71.96 66.52 98
99 73.57 66.24	73.28 66.56 74.02 67.24	72.99 66.88 73.73 67.56	72.70 67.20 99 73.43 67.88 100
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1	D 42 Deg.	421 Deg.	421 Deg.	423 Deg. D
2 1.49 1.34 1.44 1.34 1.47 1.35 1.47 1.36 2 1.30 2.20 2.04 3 4 2.97 2.68 2.96 2.69 2.95 2.70 2.94 2.72 4 5 3.72 3.35 3.70 3.36 3.69 3.38 3.67 3.39 5 6 4.66 4.01 4.44 4.03 4.42 4.05 5.14 4.75 7 5.20 4.68 5.18 4.71 5.16 4.73 5.14 4.75 7 8 5.95 5.35 5.92 5.38 5.90 5.40 5.87 5.43 8 9 6.69 6.02 6.66 6.05 6.64 6.08 6.61 6.11 9 1.743 6.69 7.40 6.72 7.37 6.76 7.34 6.79 10 11 8.17 7.36 8.14 7.40 8.11 7.43 8.08 7.47 11 28.92 8.03 8.88 8.07 8.85 8.11 8.81 8.15 12 13 9.66 8.70 9.62 8.74 9.58 8.78 9.55 8.82 13 14.10.40 9.37 10.36 9.41 10.32 9.46 10.28 9.50 14 1511.1510.04 11.1010.09 11.0610.13 11.1010.15 1511.1510.04 11.1010.09 11.0610.13 11.75 10.86 16 17 12.63 11.38 12.58 11.43 12.58 11.43 12.58 11.48 12.71 14.06 12.77 14.01 12.84 13.95 12.90 19 14.86 13.38 14.80 13.45 14.75 13.51 14.69 13.58 20 14.86 13.38 14.80 13.45 14.75 13.51 14.69 13.58 20 14.86 13.38 17.02 15.46 16.96 15.54 16.96 15.54 16.99 15.29 10.90 17.50 18.07 19.99 18.15 19.91 18.24 19.83 18.33 27.25 19.40 19.25 17.46 19.17 17.57 19.09 17.65 26 19.32 17.40 19.25 17.46 19.17 17.57 19.09 17.65 26 19.32 17.40 19.25 17.46 19.17 17.57 19.09 17.65 26 19.32 17.40 19.25 17.46 19.17 17.57 19.09 17.65 26 19.32 17.40 19.25 17.46 19.17 17.57 19.09 17.65 26 19.32 17.40 19.25 17.46 19.17 17.57 19.09 17.65 26 19.32 17.40 19.25 17.46 19.17 17.57 19.09 17.65 26 19.32 17.40 19.25 17.46 19.17 17.57 19.09 17.65 26 19.32 17.40 19.25 17.46 19.17 17.57 19.09 17.65 26 19.32 17.40 19.25 17.46 19.17 17.57 19.09 17.65 26 19.32 17.40 19.25 17.46 19.17 17.57 19.09 17.65 26 19.32 17.40 19.25 17.46 19.17 17.57 19.09 17.65 26 19.32 17.40 19.25 17.46 19.17 17.57 19.09 17.65 26 19.32 17.40 19.25 17.46 19.17 17.57 19.09 17.65 26 19.32 17.40 19.25 17.46 19.17 17.57 19.09 17.65 26 19.32 17.40 19.25 17.46 19.17 17.57 19.09 17.65 26 19.32 17.40 19.25 17.46 19.17 17.57 19.09 17.65 26 19.32 13.30 19.69 29 20.07 22.21 20.17 23.13 19.29 22.22 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05	Lat. Dep.	Lat. Dep.	Lat. Dep.	Personal Section 19 Section 1
10   7.44   6.69   7.40   6.72   7.37   6.76   7.34   6.79   10     12   8.92   8.03   8.88   8.07   8.85   8.11   8.18   8.15   12     13   9.66   8.70   9.62   8.74   9.58   8.78   9.55   8.82   13     14   10.40   9.37   10.36   9.41   10.32   9.46   10.28   9.50   14     15   11.15   10.04   11.10   10.09   11.06   10.13   11.01   10.18   15     17   12.65   11.38   12.58   11.43   12.58   11.48   12.48   11.54   17     13   13.38   12.04   13.32   12.10   13.27   12.16   13.22   12.22   18     19   14.12   12.71   14.06   12.77   14.01   12.84   13.95   12.90   19     11.56   14.05   15.54   14.12   15.48   14.19   15.42   14.25   12     22   16.35   14.72   16.28   14.79   16.92   14.86   16.16   14.93   22     23   17.09   15.39   17.02   15.46   16.96   15.54   16.89   15.61   23     24   17.84   16.06   17.77   16.14   17.69   16.21   17.62   16.29   24     25   18.58   16.73   18.11   18.43   16.89   18.36   16.97   25     26   19.32   17.40   19.25   17.48   19.17   17.57   19.09   17.65   26     27   20.06   18.07   19.99   18.15   19.91   18.24   19.83   18.33   27     28   20.81   18.74   20.73   18.83   20.64   18.92   20.56   19.01   28     29   21.35   19.40   21.47   19.50   21.38   19.59   21.30   19.69   29     30   22.29   20.07   22.21   20.17   22.12   20.27   22.03   20.36   30     32   22.78   21.41   23.69   21.52   23.59   21.62   23.50   21.73   32     33   24.52   22.08   24.43   22.19   24.38   22.29   24.23   22.40   33     34   25.27   27.50   24.76   27.39   24.88   27.28   25.00   27.17   25.12   37     38   28.82   24.25.43   28.13   25.55   28.02   25.67   29.97   27.15   40     30   27.75   29.44   29.73   28.25   29.84   30.97   28.37   30.84   28.51   42     31.21   28.10   31.09   28.24   30.97   28.37   30.84   28.51   42     31.21   28.10   31.09   28.24   30.97   28.37   30.84   28.51   42     31.21   28.10   31.09   28.24   30.97   28.37   30.84   28.51   42     31.21   28.10   31.09   28.24   30.97   28.37   30.84   28.51   42     32.12   12.12   13.34   33.19   33	1 0.74 0.67		0.74 0.68	
10   7.44   6.69   7.40   6.72   7.37   6.76   7.34   6.79   10     12   8.92   8.03   8.88   8.07   8.85   8.11   8.18   8.15   12     13   9.66   8.70   9.62   8.74   9.58   8.78   9.55   8.82   13     14   10.40   9.37   10.36   9.41   10.32   9.46   10.28   9.50   14     15   11.15   10.04   11.10   10.09   11.06   10.13   11.01   10.18   15     17   12.65   11.38   12.58   11.43   12.58   11.48   12.48   11.54   17     13   13.38   12.04   13.32   12.10   13.27   12.16   13.22   12.22   18     19   14.12   12.71   14.06   12.77   14.01   12.84   13.95   12.90   19     11.56   14.05   15.54   14.12   15.48   14.19   15.42   14.25   12     22   16.35   14.72   16.28   14.79   16.92   14.86   16.16   14.93   22     23   17.09   15.39   17.02   15.46   16.96   15.54   16.89   15.61   23     24   17.84   16.06   17.77   16.14   17.69   16.21   17.62   16.29   24     25   18.58   16.73   18.11   18.43   16.89   18.36   16.97   25     26   19.32   17.40   19.25   17.48   19.17   17.57   19.09   17.65   26     27   20.06   18.07   19.99   18.15   19.91   18.24   19.83   18.33   27     28   20.81   18.74   20.73   18.83   20.64   18.92   20.56   19.01   28     29   21.35   19.40   21.47   19.50   21.38   19.59   21.30   19.69   29     30   22.29   20.07   22.21   20.17   22.12   20.27   22.03   20.36   30     32   22.78   21.41   23.69   21.52   23.59   21.62   23.50   21.73   32     33   24.52   22.08   24.43   22.19   24.38   22.29   24.23   22.40   33     34   25.27   27.50   24.76   27.39   24.88   27.28   25.00   27.17   25.12   37     38   28.82   24.25.43   28.13   25.55   28.02   25.67   29.97   27.15   40     30   27.75   29.44   29.73   28.25   29.84   30.97   28.37   30.84   28.51   42     31.21   28.10   31.09   28.24   30.97   28.37   30.84   28.51   42     31.21   28.10   31.09   28.24   30.97   28.37   30.84   28.51   42     31.21   28.10   31.09   28.24   30.97   28.37   30.84   28.51   42     31.21   28.10   31.09   28.24   30.97   28.37   30.84   28.51   42     32.12   12.12   13.34   33.19   33	2 1.49 1.34			
10   7.44   6.69   7.40   6.72   7.37   6.76   7.34   6.79   10     12   8.92   8.03   8.88   8.07   8.85   8.11   8.18   8.15   12     13   9.66   8.70   9.62   8.74   9.58   8.78   9.55   8.82   13     14   10.40   9.37   10.36   9.41   10.32   9.46   10.28   9.50   14     15   11.15   10.04   11.10   10.09   11.06   10.13   11.01   10.18   15     17   12.65   11.38   12.58   11.43   12.58   11.48   12.48   11.54   17     13   13.38   12.04   13.32   12.10   13.27   12.16   13.22   12.22   18     19   14.12   12.71   14.06   12.77   14.01   12.84   13.95   12.90   19     11.56   14.05   15.54   14.12   15.48   14.19   15.42   14.25   12     22   16.35   14.72   16.28   14.79   16.92   14.86   16.16   14.93   22     23   17.09   15.39   17.02   15.46   16.96   15.54   16.89   15.61   23     24   17.84   16.06   17.77   16.14   17.69   16.21   17.62   16.29   24     25   18.58   16.73   18.11   18.43   16.89   18.36   16.97   25     26   19.32   17.40   19.25   17.48   19.17   17.57   19.09   17.65   26     27   20.06   18.07   19.99   18.15   19.91   18.24   19.83   18.33   27     28   20.81   18.74   20.73   18.83   20.64   18.92   20.56   19.01   28     29   21.35   19.40   21.47   19.50   21.38   19.59   21.30   19.69   29     30   22.29   20.07   22.21   20.17   22.12   20.27   22.03   20.36   30     32   22.78   21.41   23.69   21.52   23.59   21.62   23.50   21.73   32     33   24.52   22.08   24.43   22.19   24.38   22.29   24.23   22.40   33     34   25.27   27.50   24.76   27.39   24.88   27.28   25.00   27.17   25.12   37     38   28.82   24.25.43   28.13   25.55   28.02   25.67   29.97   27.15   40     30   27.75   29.44   29.73   28.25   29.84   30.97   28.37   30.84   28.51   42     31.21   28.10   31.09   28.24   30.97   28.37   30.84   28.51   42     31.21   28.10   31.09   28.24   30.97   28.37   30.84   28.51   42     31.21   28.10   31.09   28.24   30.97   28.37   30.84   28.51   42     31.21   28.10   31.09   28.24   30.97   28.37   30.84   28.51   42     32.12   12.12   13.34   33.19   33	3 2.23 2.01			2.20 2.04 3
10   7.44   6.69   7.40   6.72   7.37   6.76   7.34   6.79   10     12   8.92   8.03   8.88   8.07   8.85   8.11   8.18   8.15   12     13   9.66   8.70   9.62   8.74   9.58   8.78   9.55   8.82   13     14   10.40   9.37   10.36   9.41   10.32   9.46   10.28   9.50   14     15   11.15   10.04   11.10   10.09   11.06   10.13   11.01   10.18   15     17   12.65   11.38   12.58   11.43   12.58   11.48   12.48   11.54   17     13   13.38   12.04   13.32   12.10   13.27   12.16   13.22   12.22   18     19   14.12   12.71   14.06   12.77   14.01   12.84   13.95   12.90   19     11.56   14.05   15.54   14.12   15.48   14.19   15.42   14.25   12     22   16.35   14.72   16.28   14.79   16.92   14.86   16.16   14.93   22     23   17.09   15.39   17.02   15.46   16.96   15.54   16.89   15.61   23     24   17.84   16.06   17.77   16.14   17.69   16.21   17.62   16.29   24     25   18.58   16.73   18.11   18.43   16.89   18.36   16.97   25     26   19.32   17.40   19.25   17.48   19.17   17.57   19.09   17.65   26     27   20.06   18.07   19.99   18.15   19.91   18.24   19.83   18.33   27     28   20.81   18.74   20.73   18.83   20.64   18.92   20.56   19.01   28     29   21.35   19.40   21.47   19.50   21.38   19.59   21.30   19.69   29     30   22.29   20.07   22.21   20.17   22.12   20.27   22.03   20.36   30     32   22.78   21.41   23.69   21.52   23.59   21.62   23.50   21.73   32     33   24.52   22.08   24.43   22.19   24.38   22.29   24.23   22.40   33     34   25.27   27.50   24.76   27.39   24.88   27.28   25.00   27.17   25.12   37     38   28.82   24.25.43   28.13   25.55   28.02   25.67   29.97   27.15   40     30   27.75   29.44   29.73   28.25   29.84   30.97   28.37   30.84   28.51   42     31.21   28.10   31.09   28.24   30.97   28.37   30.84   28.51   42     31.21   28.10   31.09   28.24   30.97   28.37   30.84   28.51   42     31.21   28.10   31.09   28.24   30.97   28.37   30.84   28.51   42     31.21   28.10   31.09   28.24   30.97   28.37   30.84   28.51   42     32.12   12.12   13.34   33.19   33	4 2.97 2.68			2.94 2.72 4
10   7.44   6.69   7.40   6.72   7.37   6.76   7.34   6.79   10     12   8.92   8.03   8.88   8.07   8.85   8.11   8.18   8.15   12     13   9.66   8.70   9.62   8.74   9.58   8.78   9.55   8.82   13     14   10.40   9.37   10.36   9.41   10.32   9.46   10.28   9.50   14     15   11.15   10.04   11.10   10.09   11.06   10.13   11.01   10.18   15     17   12.65   11.38   12.58   11.43   12.58   11.48   12.48   11.54   17     13   13.38   12.04   13.32   12.10   13.27   12.16   13.22   12.22   18     19   14.12   12.71   14.06   12.77   14.01   12.84   13.95   12.90   19     11.56   14.05   15.54   14.12   15.48   14.19   15.42   14.25   12     22   16.35   14.72   16.28   14.79   16.92   14.86   16.16   14.93   22     23   17.09   15.39   17.02   15.46   16.96   15.54   16.89   15.61   23     24   17.84   16.06   17.77   16.14   17.69   16.21   17.62   16.29   24     25   18.58   16.73   18.11   18.43   16.89   18.36   16.97   25     26   19.32   17.40   19.25   17.48   19.17   17.57   19.09   17.65   26     27   20.06   18.07   19.99   18.15   19.91   18.24   19.83   18.33   27     28   20.81   18.74   20.73   18.83   20.64   18.92   20.56   19.01   28     29   21.35   19.40   21.47   19.50   21.38   19.59   21.30   19.69   29     30   22.29   20.07   22.21   20.17   22.12   20.27   22.03   20.36   30     32   22.78   21.41   23.69   21.52   23.59   21.62   23.50   21.73   32     33   24.52   22.08   24.43   22.19   24.38   22.29   24.23   22.40   33     34   25.27   27.50   24.76   27.39   24.88   27.28   25.00   27.17   25.12   37     38   28.82   24.25.43   28.13   25.55   28.02   25.67   29.97   27.15   40     30   27.75   29.44   29.73   28.25   29.84   30.97   28.37   30.84   28.51   42     31.21   28.10   31.09   28.24   30.97   28.37   30.84   28.51   42     31.21   28.10   31.09   28.24   30.97   28.37   30.84   28.51   42     31.21   28.10   31.09   28.24   30.97   28.37   30.84   28.51   42     31.21   28.10   31.09   28.24   30.97   28.37   30.84   28.51   42     32.12   12.12   13.34   33.19   33	5 3.72 3.33		STREET, STREET	3.07 3.39 5 4.41 4.07 6
10   7.44   6.69   7.40   6.72   7.37   6.76   7.34   6.79   10     12   8.92   8.03   8.88   8.07   8.85   8.11   8.18   8.15   12     13   9.66   8.70   9.62   8.74   9.58   8.78   9.55   8.82   13     14   10.40   9.37   10.36   9.41   10.32   9.46   10.28   9.50   14     15   11.15   10.04   11.10   10.09   11.06   10.13   11.01   10.18   15     17   12.65   11.38   12.58   11.43   12.58   11.48   12.48   11.54   17     13   13.38   12.04   13.32   12.10   13.27   12.16   13.22   12.22   18     19   14.12   12.71   14.06   12.77   14.01   12.84   13.95   12.90   19     11.56   14.05   15.54   14.12   15.48   14.19   15.42   14.25   12     22   16.35   14.72   16.28   14.79   16.92   14.86   16.16   14.93   22     23   17.09   15.39   17.02   15.46   16.96   15.54   16.89   15.61   23     24   17.84   16.06   17.77   16.14   17.69   16.21   17.62   16.29   24     25   18.58   16.73   18.11   18.43   16.89   18.36   16.97   25     26   19.32   17.40   19.25   17.48   19.17   17.57   19.09   17.65   26     27   20.06   18.07   19.99   18.15   19.91   18.24   19.83   18.33   27     28   20.81   18.74   20.73   18.83   20.64   18.92   20.56   19.01   28     29   21.35   19.40   21.47   19.50   21.38   19.59   21.30   19.69   29     30   22.29   20.07   22.21   20.17   22.12   20.27   22.03   20.36   30     32   22.78   21.41   23.69   21.52   23.59   21.62   23.50   21.73   32     33   24.52   22.08   24.43   22.19   24.38   22.29   24.23   22.40   33     34   25.27   27.50   24.76   27.39   24.88   27.28   25.00   27.17   25.12   37     38   28.82   24.25.43   28.13   25.55   28.02   25.67   29.97   27.15   40     30   27.75   29.44   29.73   28.25   29.84   30.97   28.37   30.84   28.51   42     31.21   28.10   31.09   28.24   30.97   28.37   30.84   28.51   42     31.21   28.10   31.09   28.24   30.97   28.37   30.84   28.51   42     31.21   28.10   31.09   28.24   30.97   28.37   30.84   28.51   42     31.21   28.10   31.09   28.24   30.97   28.37   30.84   28.51   42     32.12   12.12   13.34   33.19   33	7 320 468			514 475 7
10   7.44   6.69   7.40   6.72   7.37   6.76   7.34   6.79   10     12   8.92   8.03   8.88   8.07   8.85   8.11   8.18   8.15   12     13   9.66   8.70   9.62   8.74   9.58   8.78   9.55   8.82   13     14   10.40   9.37   10.36   9.41   10.32   9.46   10.28   9.50   14     15   11.15   10.04   11.10   10.09   11.06   10.13   11.01   10.18   15     17   12.65   11.38   12.58   11.43   12.58   11.48   12.48   11.54   17     13   13.38   12.04   13.32   12.10   13.27   12.16   13.22   12.22   18     19   14.12   12.71   14.06   12.77   14.01   12.84   13.95   12.90   19     11.56   14.05   15.54   14.12   15.48   14.19   15.42   14.25   12     22   16.35   14.72   16.28   14.79   16.92   14.86   16.16   14.93   22     23   17.09   15.39   17.02   15.46   16.96   15.54   16.89   15.61   23     24   17.84   16.06   17.77   16.14   17.69   16.21   17.62   16.29   24     25   18.58   16.73   18.11   18.43   16.89   18.36   16.97   25     26   19.32   17.40   19.25   17.48   19.17   17.57   19.09   17.65   26     27   20.06   18.07   19.99   18.15   19.91   18.24   19.83   18.33   27     28   20.81   18.74   20.73   18.83   20.64   18.92   20.56   19.01   28     29   21.35   19.40   21.47   19.50   21.38   19.59   21.30   19.69   29     30   22.29   20.07   22.21   20.17   22.12   20.27   22.03   20.36   30     32   22.78   21.41   23.69   21.52   23.59   21.62   23.50   21.73   32     33   24.52   22.08   24.43   22.19   24.38   22.29   24.23   22.40   33     34   25.27   27.50   24.76   27.39   24.88   27.28   25.00   27.17   25.12   37     38   28.82   24.25.43   28.13   25.55   28.02   25.67   29.97   27.15   40     30   27.75   29.44   29.73   28.25   29.84   30.97   28.37   30.84   28.51   42     31.21   28.10   31.09   28.24   30.97   28.37   30.84   28.51   42     31.21   28.10   31.09   28.24   30.97   28.37   30.84   28.51   42     31.21   28.10   31.09   28.24   30.97   28.37   30.84   28.51   42     31.21   28.10   31.09   28.24   30.97   28.37   30.84   28.51   42     32.12   12.12   13.34   33.19   33	8 595 535			5.87 5.43 8
10   7.44   6.69   7.40   6.72   7.37   6.76   7.34   6.79   10     12   8.92   8.03   8.88   8.07   8.85   8.11   8.18   8.15   12     13   9.66   8.70   9.62   8.74   9.58   8.78   9.55   8.82   13     14   10.40   9.37   10.36   9.41   10.32   9.46   10.28   9.50   14     15   11.15   10.04   11.10   10.09   11.06   10.13   11.01   10.18   15     17   12.65   11.38   12.58   11.43   12.58   11.48   12.48   11.54   17     13   13.38   12.04   13.32   12.10   13.27   12.16   13.22   12.22   18     19   14.12   12.71   14.06   12.77   14.01   12.84   13.95   12.90   19     11.56   14.05   15.54   14.12   15.48   14.19   15.42   14.25   12     22   16.35   14.72   16.28   14.79   16.92   14.86   16.16   14.93   22     23   17.09   15.39   17.02   15.46   16.96   15.54   16.89   15.61   23     24   17.84   16.06   17.77   16.14   17.69   16.21   17.62   16.29   24     25   18.58   16.73   18.11   18.43   16.89   18.36   16.97   25     26   19.32   17.40   19.25   17.48   19.17   17.57   19.09   17.65   26     27   20.06   18.07   19.99   18.15   19.91   18.24   19.83   18.33   27     28   20.81   18.74   20.73   18.83   20.64   18.92   20.56   19.01   28     29   21.35   19.40   21.47   19.50   21.38   19.59   21.30   19.69   29     30   22.29   20.07   22.21   20.17   22.12   20.27   22.03   20.36   30     32   22.78   21.41   23.69   21.52   23.59   21.62   23.50   21.73   32     33   24.52   22.08   24.43   22.19   24.38   22.29   24.23   22.40   33     34   25.27   27.50   24.76   27.39   24.88   27.28   25.00   27.17   25.12   37     38   28.82   24.25.43   28.13   25.55   28.02   25.67   29.97   27.15   40     30   27.75   29.44   29.73   28.25   29.84   30.97   28.37   30.84   28.51   42     31.21   28.10   31.09   28.24   30.97   28.37   30.84   28.51   42     31.21   28.10   31.09   28.24   30.97   28.37   30.84   28.51   42     31.21   28.10   31.09   28.24   30.97   28.37   30.84   28.51   42     31.21   28.10   31.09   28.24   30.97   28.37   30.84   28.51   42     32.12   12.12   13.34   33.19   33	9 6.60 6.02			
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17   12.63   11.38   12.58   11.43   12.58   11.48   12.48   11.54   17   19   14.12   12.71   14.06   12.77   14.01   12.84   13.95   12.90   19   14.06   13.38   14.80   13.45   14.75   13.51   14.69   13.58   20   12.10   15.61   14.05   15.54   14.12   15.48   14.19   15.42   14.25   21   12.61   14.05   15.54   14.12   15.48   14.19   15.42   14.25   21   12.17   14.06   12.77   16.14   17.69   16.21   14.66   15.54   14.12   15.48   14.19   15.42   14.25   21   12.17   14.06   17.77   16.14   17.69   16.21   17.62   16.29   15.61   25   17.77   16.14   17.69   16.21   17.62   16.29   24   15.18   15.48   16.89   18.36   15.97   25   19.32   17.40   19.25   17.46   19.17   17.57   19.09   17.65   26   19.32   17.40   19.25   17.46   19.17   17.57   19.09   17.65   26   19.32   13.47   19.50   21.38   19.59   20.56   19.01   28   29.21.55   19.40   21.47   19.50   21.38   19.59   21.30   19.69   29   23.34   23.22.92   20.07   22.21   20.17   22.12   20.27   22.03   20.36   30   22.29   20.07   22.21   20.17   22.12   20.27   22.03   20.36   30   22.29   20.07   22.31   20.17   22.12   20.27   22.03   20.36   30   22.29   20.07   23.42   23.59   21.62   23.50   21.73   32   34.52   22.08   24.33   22.19   24.33   22.29   24.33   22.29   24.33   22.29   24.33   22.29   24.33   22.29   24.33   22.29   24.33   22.29   24.33   22.29   24.33   22.40   33   34.52   22.76   27.39   24.88   25.57   23.76   35   36.26   24.21   26.54   24.32   24.43   24.44   36   37.27   50   24.76   27.39   24.88   27.28   25.00   27.17   25.12   37   38.28   24.23   24.23   24.23   24.23   24.23   24.23   24.23   24.23   24.23   24.23   24.23   24.23   24.23   24.23   24.23   24.23   24.23   24.23   24.23   24.23   24.23   24.23   24.23   24.23   24.23   24.23   24.23   24.23   24.23   24.23   24.23   24.23   24.23   24.23   24.23   24.23   24.23   24.23   24.23   24.23   24.23   24.23   24.23   24.23   24.23   24.23   24.23   24.23   24.23   24.23   24.23   24.23   24.23   24.23   24.23   24.23   24.23   24.23   24.23   24.23				
19 14,12 12,71   14,06 12,77   14,01 12,84   13,95 12,90   19  10,14,86 13,38   14,80 13,45   14,75 13,51   14,69 13,58  20  12,15,61   14,60 15,54   14,12   15,48 14,19   15,42 14,25  22  15,35 14,72   16,28 14,79   16,22 14,86   16,16 14,93  22  23 17,19 15,39   17,02 15,46   16,96 15,54   16,89 15,61  23  24 17,84 16,06   17,77 16,14   17,69 16,21   17,62 16,29  24  17,82 16,19  18,31 16,81   18,43 16,89   18,36 16,97  25  26 19,32 17,40   19,25 17,48   19,17 17,57   19,09 17,65  26  27 20,06 18,07   19,99 18,15   19,91 18,24   19,83 18,33  27  28 20,81 18,74   20,73 18,83   20,64 18,92   20,56 19,01  28  29,21,35 19,40   21,47 19,50   21,38 19,59   21,30 19,69  29  30 22,29 20,07   22,21 20,17   22,12 20,27   22,03 20,36  30  23,278 21,41   23,69 21,52   23,59 21,62   23,50 21,72  32  33 24,52 22,08  24,43 22,19  24,33 22,29  24,23 22,40  33  34 25,27 22,75  25,17 32,86   25,07 22,97   24,97 23,08  34 25,27 22,75  25,17 32,86   25,07 22,97   24,97 23,08  34 25,27 23,141   23,69 21,52  23,59 21,62  23,50 21,72  32  33 24,52 23,43  25,59 23,53  35 26,01 23,42  25,59 23,53  35 26,01 23,42  25,59 23,53  35 26,01 23,42  35,25 35  35 26,01 23,42  35,25 35  35 26,01 23,42  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01			11.80 10.81	19.48 11.54 17
19 14,12 12,71   14,06 12,77   14,01 12,84   13,95 12,90   19  10,14,86 13,38   14,80 13,45   14,75 13,51   14,69 13,58  20  12,15,61   14,60 15,54   14,12   15,48 14,19   15,42 14,25  22  15,35 14,72   16,28 14,79   16,22 14,86   16,16 14,93  22  23 17,19 15,39   17,02 15,46   16,96 15,54   16,89 15,61  23  24 17,84 16,06   17,77 16,14   17,69 16,21   17,62 16,29  24  17,82 16,19  18,31 16,81   18,43 16,89   18,36 16,97  25  26 19,32 17,40   19,25 17,48   19,17 17,57   19,09 17,65  26  27 20,06 18,07   19,99 18,15   19,91 18,24   19,83 18,33  27  28 20,81 18,74   20,73 18,83   20,64 18,92   20,56 19,01  28  29,21,35 19,40   21,47 19,50   21,38 19,59   21,30 19,69  29  30 22,29 20,07   22,21 20,17   22,12 20,27   22,03 20,36  30  23,278 21,41   23,69 21,52   23,59 21,62   23,50 21,72  32  33 24,52 22,08  24,43 22,19  24,33 22,29  24,23 22,40  33  34 25,27 22,75  25,17 32,86   25,07 22,97   24,97 23,08  34 25,27 22,75  25,17 32,86   25,07 22,97   24,97 23,08  34 25,27 23,141   23,69 21,52  23,59 21,62  23,50 21,72  32  33 24,52 23,43  25,59 23,53  35 26,01 23,42  25,59 23,53  35 26,01 23,42  25,59 23,53  35 26,01 23,42  35,25 35  35 26,01 23,42  35,25 35  35 26,01 23,42  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01 23,43  35 25,01	18 13 38 19 04	13 39 19 10		13 99 10 00 19
20   14.86   13.38   14.80   13.45   14.75   13.51   14.69   13.58   20   21   15.61   14.05   15.54   14.12   15.48   14.19   15.42   14.25   21   15.61   14.93   23   17.09   15.39   17.02   15.46   16.96   15.54   16.16   14.93   23   17.09   15.39   17.77   16.14   17.69   16.21   17.62   16.29   24   17.84   16.06   17.77   16.14   17.69   16.21   17.62   16.29   24   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   16.29   17.62   17.62   16.29   17.62   17.62   17.62   17.62   17.62   17.62   17.62   17.62   17.62   17.62   17.62   17.62   17.62   17.62   17.62   17.62   17.62   17.62   17.62   17.62   17.62   17.62   17.62   17.62   17.62   17.62   17.62		14.06 12.77		13.95 12 90 19
21   15.61   14.05   15.54   14.12   15.48   14.19   15.42   14.25   21   22   16.35   14.72   16.28   14.79   16.92   14.86   16.16   14.93   22   14.784   16.06   17.77   16.14   17.69   16.21   17.62   16.29   24   17.84   16.16   18.31   16.81   18.43   16.89   18.36   16.97   25   25   18.31   16.81   18.43   16.89   18.36   16.97   25   26   19.32   17.40   19.25   17.48   19.17   17.57   19.09   17.65   26   27   20.06   18.07   19.99   18.15   19.91   18.24   19.83   18.33   27   29.21.55   19.40   21.37   18.83   20.64   18.92   20.56   19.01   28   29.21.55   24.74   23.69   21.52   23.59   21.62   24.33   22.29   20.36   30   23.24   22.25   20.84   23.59   21.62   23.50   21.72   23.34   23.27   22.12   20.27   22.03   20.36   30   23.45   22.75   25.17   23.86   25.07   22.97   23.30   23.24   33.24   25.25   23.91   23.53   25.80   23.65   25.70   23.76   35   36   26.75   24.09   26.65   24.21   26.54   24.32   26.44   24.44   36   37   27.50   24.76   27.39   24.85   25.67   22.56   27.39   24.33   22.29   29.37   27.15   38   28.24   25.43   28.13   25.55   25.67   22.56   27.39   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.79   25.			14.75 13.51	14.69 13.58 20
22   16.35   14.72   16.28   14.79   16.22   14.86   16.16   14.93   22   23   17.09   15.39   17.02   15.46   16.96   15.54   16.89   15.61   25   24   17.84   16.06   17.77   16.14   17.69   16.21   17.62   16.29   24   25   18.58   16.73   18.51   16.81   18.43   16.89   18.36   16.97   25   27   20.06   18.07   19.99   18.15   19.91   18.24   19.83   18.33   27   28   20.81   18.74   20.73   18.83   20.64   18.92   20.56   19.01   28   29   21.55   19.40   21.47   19.50   21.38   19.59   21.30   19.69   29   23.04   20.74   22.95   20.84   22.86   20.94   22.76   21.04   31   23.04   20.74   23.69   21.52   23.59   21.62   23.50   21.72   32   24.33   22.29   24.23   22.40   33   24.52   22.08   24.43   22.19   24.33   22.29   24.23   22.40   33   24.52   22.75   25.17   23.86   25.07   22.97   24.97   23.08   34   25.27   27.75   25.17   23.86   25.07   22.97   24.97   23.08   34   25.27   27.50   24.76   27.39   24.88   27.28   25.00   27.17   25.12   37   25.12   35.98   25.67   27.90   25.79   38.28   24.23   25.45   25.80   25.67   27.90   25.79   38.28   24.23   24.23   24.23   24.23   24.44   36   27.17   25.12   37   25.12   37   25.12   37   25.12   37   25.12   37   25.12   37   25.12   37   25.12   37   25.12   37   25.12   37   25.12   37   25.12   37   25.12   37   37   37   37   37   37   37   3				
23   17.09   15.39   17.02   15.46   16.96   15.54   16.89   15.61   23   24   17.84   16.06   17.77   16.14   17.69   16.21   17.62   16.29   24   25   18.58   16.73   18.51   16.81   18.43   16.89   18.36   16.97   25   26   19.32   17.40   19.25   17.48   19.17   17.57   19.09   17.65   26   28   20.81   18.74   20.73   18.83   20.64   18.92   20.56   19.01   28   29   21.55   19.40   21.47   19.50   21.38   19.59   22.03   20.36   30   22.29   20.07   22.21   20.17   22.12   20.27   22.03   20.36   30   23.78   21.41   23.69   21.52   23.59   21.62   23.50   21.73   22   23.59   21.62   23.50   21.73   23   23.45   22.208   24.43   22.19   24.33   22.29   24.33   22.19   24.35   22.29   24.33   22.19   24.35   22.29   24.33   22.40   33   42.52.72   22.75   25.17   23.86   25.07   22.97   24.97   23.08   34   25.27   22.91   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59   23.59		16.28 14.79		
24 17.84 16.06   17.77 16.14   17.69 16.21   17.62 16.29  24  25 18.58 16.73   18.51 16.81   18.43 16.89  18.36 16.97  25  26 19.32 17.40   19.25 17.48   19.17 17.57   19.09 17.65  26  27 20.06 18.07   19.99 18.15  19.91 18.24  19.83 18.33  27  28 20.81 18.74   20.73 18.83  20.64 18.92  20.56 19.01  28  29 21.53 19.40  21.47 19.50  21.38 19.59  21.30 19.69  29  30 22.29 20.07  22.21 20.17  22.19 20.27  22.03 20.36  30  31 23.04 20.74  22.95 20.84  22.19 20.27  22.03 20.36  30  32 23.78 21.41  23.69 21.52  23.59 21.62  23.50 21.72  32  33 24.52 22.08  24.43 22.19  24.38 22.29  24.23 22.40  33  34 25.27 22.75  25.17 22.86  25.07 22.97  24.97 23.08  34 25.27 22.75  25.17 23.85  25.07 22.97  24.97 23.08  34 25.27 23.42  25.59 23.53  25.80 23.65  25.70 23.76  35 28.92 25.67  27.50 24.76  27.39 24.88  27.28 25.00  27.17 25.12  37 32.89 26.10  28.87 36.22  28.75 26.35  28.64 26.47  39 28.98 26.10  28.87 36.22  28.75 26.35  28.64 26.47  39 28.98 26.10  28.87 36.22  28.75 26.35  29.37 27.15 40 43 30.47 27.43  43 31.21 28.10  31.09 28.24  30.97 28.37  30.84 28.51 42 43 23.19 29.44 45 27 29.44  32.57 29.58 32.47 33.34 30.11  33.31 30.26  33.18 30.40  33.78 31.22 46  34.83 31.45 34 30.11  33.31 30.26  33.18 30.40  33.78 31.22 46  34.83 31.45 34 30.11  33.31 30.26  33.18 30.40  33.78 31.22 46  35 25 32.58 48  35.67 32.12 33.46  37.01 33.62  36.86 33.78 36.72 33.94 50  36.86 33.78 36.72 33.94 50  36.86 33.78 36.72 33.94 50  36.86 33.78 36.72 33.94 50  36.86 33.78 36.72 33.94 50  36.86 33.78 36.72 33.94 50  36.86 33.78 36.72 33.94 50  36.86 33.78 36.72 33.94 50  36.86 33.78 36.72 33.94 50  36.86 33.78 36.72 33.94 50  36.86 33.78 36.72 33.94 50  36.86 33.78 36.72 33.94 50  36.86 33.78 36.72 33.94 50  36.86 33.78 36.72 33.94 50  36.86 33.78 36.72 33.94 50  36.86 33.78 36.72 33.94 50  36.86 33.78 36.72 33.94 50  36.86 33.78 36.72 33.94 50  36.86 33.78 36.72 33.94 50  36.86 33.78 36.72 33.94 50  36.86 33.78 36.72 33.94 50  36.86 33.78 36.72 33.94 50  36.86 33.78 36.72 33.94 50  36.86 33.78 36.72 33.94 50  36.86 33.78 36.72 33.94		17.02 15.46	16.96 15.54	
2518.58 16.73	24 17.84 16.06	17.77 16.14	17.69 16.21	17.62 16.29 24
27/20.06 18.07	25 18.58 16.73	18.51 16.81	18.43 16.89	18.36 16.97 25
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33   24.52   22.08   24.43   22.19   24.38   22.29   24.23   22.40   33   34   25.27   22.55   25.07   22.97   24.97   23.08   34   25.27   24.09   25.07   22.97   24.97   23.08   34   25.07   22.97   24.97   23.08   34   25.07   22.97   24.97   23.08   34   25.05   25.07   23.76   35   38   28.24   25.43   28.13   25.55   28.02   25.67   25.00   25.79   38   28.98   26.10   28.87   26.25   28.75   26.35   28.64   26.47   39   24   29.73   26.77   29.61   26.89   29.49   27.02   29.37   27.15   40   29.73   26.77   29.61   26.89   29.49   27.02   29.37   27.15   40   41   30.47   27.43   30.33   27.57   30.23   27.70   30.11   27.83   41   41   32.70   29.44   32.57   29.58   32.44   29.73   32.31   29.87   44   52.70   29.44   32.57   29.58   32.44   29.73   32.31   29.87   44   53.34   30.78   34.05   30.93   33.91   31.08   33.78   31.22   46   34.83   37.83   34.95   30.93   33.91   31.08   33.78   31.22   46   34.83   35.67   32.12   35.53   32.27   35.39   32.43   35.25   33.25   49   36.41   22.79   36.27   32.95   36.13   33.10   35.98   33.26   49   50   37.16   33.46   37.01   33.62   36.86   33.78   36.72   33.94   50   36.86   37.01   33.62   36.86   33.78   36.72   33.94   50   36.86   37.01   36.25   50.86   33.78   36.72   33.94   50   36.86   37.01   36.25   50.86   33.78   36.72   33.94   50   36.86   36.78   36.72   33.94   50   36.86   36.86   37.01   36.25   50.86   37.01   36.25   50.86   37.01   36.25   50.86   37.01   36.25   50.86   37.01   36.25   50.86   37.01   36.25   50.86   37.01   36.25   50.86   37.01   36.25   50.86   37.01   36.25   50.86   37.01   36.25   50.86   37.01   36.25   50.86   37.01   36.25   50.86   37.01   36.25   50.86   37.01   36.25   50.86   37.01   36.25   50.86   37.01   36.25   50.86   37.01   36.25   50.86   37.01   36.25   50.86   37.01   37.01   37.01   37.01   37.01   37.01   37.01   37.01   37.01   37.01   37.01   37.01   37.01   37.01   37.01   37.01   37.01   37.01   37.01   37.01   37.01   37.01   37.01   37.01   37.01   37.01   37.01   37.01   37.01			22.80 20.94	
35/26.01/23.42   25.91/23.53   25.80/23.65   25.70/23.76   35.80/23.65   26.44/24.43   35.80/23.65   27.50/24.76   27.50/24.76   27.39/24.88   27.28/25.00   27.17/25.12   37.80/25.67   28.81/25.55   28.02/25.67   27.90/25.79   38.828.24/25.43   28.13/25.55   28.02/25.67   27.90/25.79   38.80/25.67   29.61/26.89   29.49/27.02   29.37/27.15   40.29/33/25.75   30.35/27.57   30.35/27.70   30.11/27.83   41.23/1.21/28.10   51.09/28.24   30.97/28.37   30.84/28.51   44.52/70/29.44   52.57/29.58   32.44/29.73   33.58/29.19   43.44/23.70/29.44   32.57/29.58   32.44/29.73   32.31/29.87   44.52/70/29.44   32.57/29.58   32.44/29.73   32.31/29.87   44.52/70/29.44   32.57/29.58   32.44/29.73   33.78/31.22   46.34/3.34/3.11   33.31/30.26   33.18/30.40   33.04/30.55   45.46/34.18/30.78   34.79/31.60   34.65/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.80   33.91/31.00   33.91/31.00   33.91/31.00   33.91/31.00   33.9	32 23.70 21.41	24 43 22.19		
35/26.01/23.42   25.91/23.53   25.80/23.65   25.70/23.76   35.80/23.65   26.44/24.43   35.80/23.65   27.50/24.76   27.50/24.76   27.39/24.88   27.28/25.00   27.17/25.12   37.80/25.67   28.81/25.55   28.02/25.67   27.90/25.79   38.828.24/25.43   28.13/25.55   28.02/25.67   27.90/25.79   38.80/25.67   29.61/26.89   29.49/27.02   29.37/27.15   40.29/33/25.75   30.35/27.57   30.35/27.70   30.11/27.83   41.23/1.21/28.10   51.09/28.24   30.97/28.37   30.84/28.51   44.52/70/29.44   52.57/29.58   32.44/29.73   33.58/29.19   43.44/23.70/29.44   32.57/29.58   32.44/29.73   32.31/29.87   44.52/70/29.44   32.57/29.58   32.44/29.73   32.31/29.87   44.52/70/29.44   32.57/29.58   32.44/29.73   33.78/31.22   46.34/3.34/3.11   33.31/30.26   33.18/30.40   33.04/30.55   45.46/34.18/30.78   34.79/31.60   34.65/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.75   34.51/31.90   43.45/31.80   33.91/31.00   33.91/31.00   33.91/31.00   33.91/31.00   33.9	34 25.27 22.75	25.17 22.86	25.07 22.97	
36 26.75 24.09  26.65 24.21  26.54 24.32  26.44 24.44  36  37 27.50 24.76  27.39 24.88  27.28 25.00  27.17 25.12  37  38 28 24 25.43  28.13 25.55  28.02 25.67  27.90 25.79  38  39 28 98 26.10  28.87 36 22  28.75 26.35  28.64 26.47  39  40 29.73 26.77  29.61 26.89  29.49 27.02  29.37 27.15  40  29.31 21 28.10  51.09 28.24  30.97 28.37  30.84 28.51  42  31.96 28.77  31.83 28.91  31.70 29.05  31.58 29.19  34  33.44 30.11  33.31 30.26  33.18 30.40  33.04 28.51 42  45 237 29.44 32.57 29.58  33.44 29.73  32.31 29.87 44 32.57 29.58  33.44 29.73  33.31 29.87 44 32.57 29.58  33.44 29.73  33.31 30.25  45 33.44 30.11  35.53 30.26  33.18 30.40  33.78 31.22 46  34.55 37 35 35 35 35 35 35 35 35 35 35 35 35 35	35 26.01 23.42	25.91 23.53	25.80 23.65	25.70 23.76 35
3828.24/25.43 28.13 25.55 28.02/25.67 27.90 25.79 38 29.28.98 26.10 28.87 36.22 28.75 26.35 28.64 26.47 39 40.29.73 26.77 29.61 26.89 29.49 27.02 29.37 27.15 40 40.29.73 26.77 30.33 27.70 30.23 27.70 30.11 27.83 41 43.31.96 28.77 31.53 28.91 31.70 29.05 31.58 29.19 43 44 52.70 29.44 32.57 29.58 32.44 29.73 32.31 29.87 44 45.33.44 30.11 33.31 30.26 33.18 30.40 33.04 30.55 45 46 34.18 30.78 34.05 30.93 33.91 31.08 33.78 31.22 46 34.93 31.45 34.79 31.60 34.65 31.75 34.51 31.90 47 48 35.67 32.12 35.55 33.2.7 35.29 32.43 35.25 32.58 48 35.67 32.7 36.27 32.95 36.13 33.10 35.98 33.26 49 50 37.16 33.46 37.01 33.62 36.86 33.78 36.72 33.94 50 50 50 57.16 33.46 37.01 33.62 36.86 33.78 36.72 33.94 50 50 57.16 33.46 37.01 33.62 36.86 33.78 36.72 33.94 50 50 50 57.16 33.46 37.01 33.62 36.86 33.78 36.72 33.94 50 50 50 57.16 33.46 37.01 33.62 36.86 33.78 36.72 33.94 50 50 50 57.16 33.46 37.01 33.62 36.86 33.78 36.72 33.94 50 50 50 57.16 33.46 37.01 33.62 36.86 33.78 36.72 33.94 50 50 57.16 33.46 37.01 33.62 36.86 33.78 36.72 33.94 50 50 57.16 33.46 37.01 33.62 36.86 33.78 36.72 33.94 50 50 57.16 33.46 37.01 33.62 36.86 33.78 36.72 33.94 50 50 57.16 33.46 37.01 33.62 36.86 33.78 36.72 33.94 50 50 57.16 33.46 37.01 33.62 36.86 33.78 36.72 33.94 50 50 57.16 33.46 37.01 33.62 36.86 33.78 36.72 33.94 50 50 57.16 33.46 37.01 33.62 36.86 33.78 36.72 33.94 50 50 57.16 33.46 37.01 33.62 36.86 33.78 36.72 33.94 50 50 57.16 33.46 37.01 33.62 36.86 33.78 36.72 33.94 50 50 57.16 33.46 37.01 33.62 36.86 33.78 36.72 33.94 50 50 57.16 33.46 37.01 33.62 36.86 33.78 36.72 33.94 50 50 57.16 33.46 37.01 33.62 36.86 33.78 36.72 33.94 50 50 57.16 33.46 37.01 33.62 36.86 33.78 36.72 33.94 50 50 57.16 33.46 37.01 33.62 36.86 33.78 36.72 33.94 50 50 57.16 33.46 37.01 33.62 36.86 33.78 36.72 33.94 50 57.16 33.46 37.01 33.62 36.86 33.78 36.72 33.94 50 50 57.16 33.46 37.01 33.62 36.86 33.78 36.72 33.94 50 50 57.16 33.46 37.01 33.62 36.86 33.78 36.72 33.94 50 50 57.16 33.46 37.01 33.62 36.86 33.78 36.72 33.94 50 50 57.16 33.16 38.16 38.16 38.16 38.16 38.1	36 26.75 24.09	26.65 24.21	26.54 24.32	
3828.24/25.43 28.13 25.55 28.02/25.67 27.90 25.79 38 29.28.98 26.10 28.87 36.22 28.75 26.35 28.64 26.47 39 40.29.73 26.77 29.61 26.89 29.49 27.02 29.37 27.15 40 40.29.73 26.77 30.33 27.70 30.23 27.70 30.11 27.83 41 43.31.96 28.77 31.53 28.91 31.70 29.05 31.58 29.19 43 44 52.70 29.44 32.57 29.58 32.44 29.73 32.31 29.87 44 45.33.44 30.11 33.31 30.26 33.18 30.40 33.04 30.55 45 46 34.18 30.78 34.05 30.93 33.91 31.08 33.78 31.22 46 34.93 31.45 34.79 31.60 34.65 31.75 34.51 31.90 47 48 35.67 32.12 35.55 33.2.7 35.29 32.43 35.25 32.58 48 35.67 32.7 36.27 32.95 36.13 33.10 35.98 33.26 49 50 37.16 33.46 37.01 33.62 36.86 33.78 36.72 33.94 50 50 50 57.16 33.46 37.01 33.62 36.86 33.78 36.72 33.94 50 50 57.16 33.46 37.01 33.62 36.86 33.78 36.72 33.94 50 50 50 57.16 33.46 37.01 33.62 36.86 33.78 36.72 33.94 50 50 50 57.16 33.46 37.01 33.62 36.86 33.78 36.72 33.94 50 50 50 57.16 33.46 37.01 33.62 36.86 33.78 36.72 33.94 50 50 50 57.16 33.46 37.01 33.62 36.86 33.78 36.72 33.94 50 50 57.16 33.46 37.01 33.62 36.86 33.78 36.72 33.94 50 50 57.16 33.46 37.01 33.62 36.86 33.78 36.72 33.94 50 50 57.16 33.46 37.01 33.62 36.86 33.78 36.72 33.94 50 50 57.16 33.46 37.01 33.62 36.86 33.78 36.72 33.94 50 50 57.16 33.46 37.01 33.62 36.86 33.78 36.72 33.94 50 50 57.16 33.46 37.01 33.62 36.86 33.78 36.72 33.94 50 50 57.16 33.46 37.01 33.62 36.86 33.78 36.72 33.94 50 50 57.16 33.46 37.01 33.62 36.86 33.78 36.72 33.94 50 50 57.16 33.46 37.01 33.62 36.86 33.78 36.72 33.94 50 50 57.16 33.46 37.01 33.62 36.86 33.78 36.72 33.94 50 50 57.16 33.46 37.01 33.62 36.86 33.78 36.72 33.94 50 50 57.16 33.46 37.01 33.62 36.86 33.78 36.72 33.94 50 50 57.16 33.46 37.01 33.62 36.86 33.78 36.72 33.94 50 50 57.16 33.46 37.01 33.62 36.86 33.78 36.72 33.94 50 50 57.16 33.46 37.01 33.62 36.86 33.78 36.72 33.94 50 57.16 33.46 37.01 33.62 36.86 33.78 36.72 33.94 50 50 57.16 33.46 37.01 33.62 36.86 33.78 36.72 33.94 50 50 57.16 33.46 37.01 33.62 36.86 33.78 36.72 33.94 50 50 57.16 33.46 37.01 33.62 36.86 33.78 36.72 33.94 50 50 57.16 33.16 38.16 38.16 38.16 38.16 38.1	37 27.50 24.76	27.39 24.88	27.28 25.00	27.17 25.12 37
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53 39.39 35.46	39.23 35.64 39.97 36.31	39.08 35.81		3
54 40.13 36.13 55 40.87 36.80	39.97 36.31 40.71 36.98	39.81 36.48 40.55 37.16		4
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57 42.36 38.14	42.19 38.32	42.02 38.51	The second second second	7
58 43.10 38.81	42.93 39.00	42.76 39.18		8
59 43 85 39.48	43.67 39.67	43.50 39.86		9
60 44.59 40.15	44.41 40.34	44.24 40.54	THE REAL PROPERTY NAMED IN	50
61 45.33 40.82	45.15 41.01	44.97 41.21		51
62 46.07 41.49	45.89 41.69	45.71 41.89		52
63 46.82 42.16 64 47.56 42.82	46.63 42.36 47.37 43.03	46.45 42.56 47.19 43.24		53
65 48.30 43.49	48.11 43.70	47.92 43.91		55
66 49.05 44.16	48.85 44.38	48.66 44.59		56
67 49.79 44.83	49.59 45.05	49.40 45.26	49.20 45.48	57
68 50.53 45.50	50.33 45.72	50.13 45.94		58
69 51.28 46.17	51.07 46.39	50.87 46.62		59
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74 54 99 49 52	54.78 49.76	53.82 49.32 54.56 49.99	THE RESERVE AND ADDRESS OF THE PARTY OF THE	73
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80 59.45 53.53	59.22 53.79	58.98 54.05	Control of State Control	80
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86 63.91 57.55	63.66 57.82	63.41 58.10	63.15 58.38	86
87 64.65 58.21	64.40 58.50	64.14 58.78	BECOME A DESCRIPTION	87
88 65.40 58.88	65.14 59.17	64.88 59.45		88
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н	9 6.58 6.14	6.56 6.17	6.53 6.20	6.50 6.22 9	4
н	10 7.31 6.82	7.28 6.85	7.25 6.88	7.22 6.92 10	а.
ш	11 8.04 7.50	8.01 7.54	7.98 7.57	7.95 7.61 11	ı
ı	12 8.78 8.18	8.74 8.22	8.70 8.26	8.67 8.30 12	8
ш	13 9.51 8.87	9.47 8.91	9.43 8.95	9.39 8.99 13	a
н	14 10.24 -9.55 15 10.97 10.23	10.20 9.59	10.16 9.64	10.11 9.68 14 10.84 10.37 15	м
ш	16 11.70 10.91	11.65 10.96	11.61 11.01	11.56 11.06 16	ш
н	17 12.43 11.59	12.38 11.65	12.33 11.70	12.28 11.76 17	8
А	18 13.16 12.28	13.11 12.33	13.06 12.39	13.00 12.45 18	ш
п	19 13.90 12.96	13.84 13.02	13.78 13.08	13.72 13.14 19	1
ı	20 14.63 13.64	14.57 13.70	14.51 13.77	14.45 13.83 20	N.
1	21 15.36 14.32	15.30 14.39	15.23 14.46	15.17 14.52 21	
1	22 16.09 15.00	16.02 15.07 16.75 15.76	15.96 15.14	15.89 15.21 22	1
и	23 16.82 15.69	17.48 16.44	16.68 15.83	16.61 15.90 23 17.34 16.60 24	1
в	24 17.55 16.37 25 18.28 17.05	18.21 17.13	17.41 16.52 18.13 17.21	18.06 17.29 25	ж
и	26 19.02 17.73	18.94 17.81	18.86 17.90	18.78 17.98 26	
н	27 19.75 18.41	19.67 18.50	19.59 18.59	19.50 18.67 27	H
	28 20.48 19.10	20.39 19.19	20.31 19.27	20.23 19.36 28	
н	29 21.21 19.78	21.12 19.87	21.04 19.96	20.95 20.05 29	п
п	30 21.94 20.46	21.85 20.56	21.76 20.65	21.67 20.75 30	и
	31 22.67 21.14	22.58 21.24	22.49 21.34	22.39 21.44 31	п
ш	32 23.40 21.82	23.31 21.93	23.21 22.03	23.12 22.13 32	ш
п	38 24.13 22.51 34 24.87 23.19	24.04 22.61 24.76 23.30	23.94 22.72 24.66 23.40	23.84 22.82 33 24.56 23.51 34	ш
п	35 25.60 23 87	25.49 23.98	25.39 24.09	25.28 24.20 35	Ш
и	36 26.33 24.55	26.22 24.67	26.11 24.78	26.01 24.89 36	
в	37 27.06 25.23	26.95 25.35	26.84 25.47	26.73 25.59 37	ш
ĸ	38 27.79 25.92	27.68 26.04	27.55 26.16	27.45 25.28 38	
	39 28.52 26.60	28.41 26.72	28.29 26.85	28.17 26.97 39 28.89 27.66 40	
1	40 29.25 27.28	29.13 27.41 29.86 28.09	29.01 27.53	Department September September 1	
B	41 29.99 27.96 42 30.72 38.64	30.59 28.78	29.74 28.22 30.47 28.91	29.62 28.35 41 30.34 29.04 42	
н	43 31.45 29.33	31.32 29.46	31.19 29.60	31.06 29.74 43	
ı	44 32.18 30.01	32.05 30.15	31.92 30.29	31.78 30.43 44	
	45 32 91 30.69	32.78 30.83	32.64 30.98	32.51 31.12 45	м
	46 33.64 31.37	33.51 31.52	33.37 31.66	33,23 31.81 46	1
	47 34.37 32.05	34.23 32.20	34.09 32.35	33.95 32.50 47	
	48.35.10 32.74 49.35.84 33.42	34.96 32.89	34.82 33.04	35.40 33.88 49	
1	50 35.56 34.10	35.69 33.57 36.42 34.26	35.54 33.73 36.27 34.42	35.40 33.88 49 36.12 54.58 50	
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U 43 Deg.	431 Deg.	43 Deg. 1	43 Deg.	UII	
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51 37.30 34.7B	37.15 34.94	36,99 35.11	36.84 35.27	51	
52 38.03 35.46	37.88 35.63	37.72 35.79	37.56 35.96	52	
53 38.76 36.15	38.60 36.31	38.44 36.48	38.29 36.65	53	
54 39.49 36.83	39.33 37.00	39.17 37.17	59.01 37.34	54	
55 40.22 37.51	40.06 37.69	39.90 37.86	39.73 38.03	55	
56 40.96 38.19	40.79 38.37 41.52 39.06	40.62 38.55 41.35 39.24	40.45 38.72	56	
57 41.69 38.87 58 42.42 39.56	42.25 39.74	42.07 39.92	41.17 39.42 41.90 40.11	57 58	
59 43.15 40.24		42.80 40.61	42.62 40.80	59	
60 43.88 40.92	42.97 40.43 43.70 41.11	43.52 41.30	43.34 41.49	60	
61 44.61 41.60	44.43 41.80	44.25 41.99	44.06.42.18	61	
62 45.34 42.28	45.16 42.48	44.97 42.68	44.79 42.87	62	
63 46.08 42.97	45.89 43.17	45.70 43.37	45.51 43.57	63	
64 46.81 43.65	46.62 43.85	46.42 44.05	46.23 44.26	64	
65 47.54 44.33	47.34 44.54	47.15 44.74	46.95 44.95	65	
66 48.27 45.01	48.07 45.22	47.87 45.43	47.68 45.64	66	
67 49.00 45.69 68 49.73 46.38	48.80 45.91 49.53 46.59	48.60 46.12 49.33 46.81	48.40 46.33 49.12 47.01	67	
69 50.46 47.06	50.26 47.28	50.05 47.50	49.84 47.71	69	
70 51.19 47.74	50.99 47.96	50.78 48.18	50.57 48.41	70	
71 51.93 48.42	51.71 48.65	51.50 48.87	51.29 49.10	71	
72 52.66 49.10		52.23 49.56	52.01 49.79	72	
73 53.39 49.79	52.44 49.33 53.17 50.02	52.95 50.25	52.73 50.48	73	
74 54.12 50.47	53.90 50.70	53.68 50.94	53.45 51.17	74	
75 54.85 51.15	54.63 51.39	54.40 51.63	54.18 51.86	75	
76 55.58 51.83	55.36 52.07	55.13 52.31	54.90 52.55	76	
77 56.31 52.51	56.08 52.76	55.85 53.00	55.62 53.25	77	
78 57.05 53.20 79 57.78 53.88	56.81 53.44 57.54 54.13	56.58 53.69 57.30 54.38	56.34 53.94	78	
80 58.51 54.56	58.27 54.81	58.03 55.07	57.07 54.63 57.79 55.32	79	
81 59.24 55.24	59.00 55.50	58.76 55.76	58.51 56.01	81	
82 59.97 55 99	59.73 56.18	59.48 56.45	59.23 56.70		
82 59.97 55.92 83 60.70 56.61	60.45 56.87	60.21 57.13	59.96 57.40		
84 61.43 57.29	61.18 57.56	60.93 57:82	60.68 58.09	84	
85 62.17 57.97	61.91 58.24	61.66 58.51	61.40 58.78	85	
86 62.90 58.65 87 63.63 59.33	62.64 58.93	62.38 59.20	62.12 59.47	86 1	
	63.37 59.61	63.11 59.89	62.85 60.16	87	
88 64.36 60.02 89 65.09 60.70	64.10 60.30 64.82 60.98	63.83 60.58 64.56 61.26	63.57 60.85 64.29 61.54	88	
90 65.82 61.38	65.55 61.67	65.28 61.95	65.01 62.24	90	
91 66.55 62.06	66.28 62.35	66.01 62.64	65.74 62.93	91	
92 67.28 62.74	67.01 63.04	66.73 63.33	65.46 63.62	92	
93 68.02 63.43	67.74 63.72	67.46 64.62	67.18 64.31	98	
94 68.75 64.11	68.47 64.41	68.19 64.71	67.90 65.00	94	
95 69.48 64.79	69:20 65.09	68.91 65.39	68.62 65.69	95	
96 70.21 65.47	69.92 65.78	69.64 66.08	69.35 66.39	96	
97 70.94 66.15	70.65 66.46	70.36 66.77	70.07 67.08		
98 71.67 66.84	71.38 67.15 72.11 67.83	71.09 67.46 71.81 68.15	70.79 67.77	98	
99 72.40 67.52 100 73.14 68.20	72.84 68.52	72.54 68.84	71.51 68.46 72.24 69.15	99	
		Annual Committee of the local Committee of th		-	
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1 5 44 Deg. 1	441 Deg.	441 Deg.	443 Deg.	45 Deg. 0
Lat. Dep.	Lat.   Dep.	Lat.   Dep.	Lat. Dep.	Lat. Dep.
1 0.72 0.69	0.72 0.70	0.71 0.70	0.71 0.71	0.71 0.71 1
2 1.44 1.39	1.43 1.40	1.43 1.40	1.42 1.41	1.41 1.41 2
3 2.16 2.08	2.15 2.09	2.14 2.10	2.13 2.11	2.12 2.12 3
4 2.88 2.78	2.87 2.79	2.85 2.80	2.84 2.82	2.83 2.83 4
5 3.60 S.47 6 4.32 4.17	3.58 3.49 4.30 4.19	3.57 3.50	3.55 3.52	3.54 3.54 5
	4.30 4.19 5.01 4.88	4.28 4.21 4.99 4.91	4.26 4.22 4.97 4.93	4.24 4.24 6 4.95 4.95 7
7 5.04 4.86 8 5.75 5.56	5.73 5.58	5.71 5.61	5.68 5.68	5.66 5.66 8
9 6.47 6.25	6.45 6.28	6.42 6.31	6.39 6.34	6.36 6.36 9
10 7.19 6.95	7.16 6.98	7.13 7.01	7.10 7.04	7.07 7.07 10
11 7.91 7.64	7.88 7.68	7.85 7.71	7.81 7.74	7.78 7.78 11
12 8.63 8.34	8.60 8.37	8.56 8.41	8.52 8.45	8.49 8.49 12
13 9.35 9.03	9.31 9.07	9.27 9.11	9.23 9.15	9.19 9.19 13
14 10.07 9.73	10.03 9.77	9.99 9.81	9.94 9.86	9.90 9.90 14
15 10.79 10.42	10.74 10.47	10.70 10.51	10,65 10.56	10.61 10.61 15
16 11.51 11.11 17 12.23 11.81	11.4611.16	11.41 11.21	11.36 11.26	11.31 11.31 16
1812.95 12.50	12.18 11.86 12.89 12.56	12.13 11.92 12.84 12.62	12.07 11.97 12.78 12.67	12.02 12.02 17 12.73 12.73 18
19 13.67 13.20	13.61 13.26	13.55 13.32	13.49 13.38	13.43 13.43 19
20 14.39 13.89	14.33 13.96	14.26 14.02	14.20 14.08	14.14 14.14 20
21,15.11(14.59	15.04 14.65	14.98 14.72	14.91 14.78	14.85 14.85 21
99 15.83 15.28	15.76 15.35	15.69 15.42	15.62 15.49	15.56 15.56 22
23 16.54 15.98	16.47 16.05	16.40 16.12	16.33 16.19	16.26 16.26 23
24 17.26 16.67		17.12 16.82	17.04 16.90	16.97 16.97 24
25 17.98 17.37	17.19 16.75 17.91 17.44	17.83 17.52	17.75 17.60	17.68 17.68 25
26 18.70 18.06	18.62 18.14	13.54 18.22	18.46 18.30	18.38 18.38 26
27 19.42 18.76	19.34 18.84	19.26 18.92	19.17 19.01	19.09 19.09 27
28 20.14 19.45 29 20.86 20.15	20.06 19.54	19.97 19.63	19.89 19.71	19.80 19.80 28
30 21.58 20.84	20.77 20.24 21.49 20.93	20.68 20.33	20.60 20.42	20.51 20.51 29 21.21 21.21 30
31 22.30 21.53		21.40 21.03	21.31 21.12	Married Married Street, or other Persons and Publishers and Publis
32 23.02 22.23	22.21 21.63	22.11 21.73 22.82 22.43	22.02 21.82	21.92 21.92 31
33 23.74 22.92	22.92 22.33 23.64 23.03	23.54 23.13	22.73 22.53 23.44 23.23	22.63 22.63 32 23.53 23.33 33
34 24.46 23.62	24.35 23.72	24.25 23.83	24.15 23.94	23.53 23.33 33 24.04 34
34 24.46 23.62 35 25.18 24.31	25.07 24.42	24.96 24.53	24.86 24.64	24.75 24.75 35
36 25.90 25.01	25.79 25.12	25.68 25.23	25.57 25.34	25.46 25.46 36
37 26.62 25.70	26.50 25.82	26.39 25.93	26.28 26.05	26.16 26.16 57
38 27.53 26.40	27.22 26.52	27.10 26.63	26.99 26.75	26.87 26.87 38
39 28.05 27.09	27.94 27.21	27.82 27.34	27.70 27.46	27.58 27.58 39
40 28.77 27.79	28.65 27.91	28.53 28.04	28.41 28.16	28.28 28.28 40
41 29.49 28.48	29.37 28.61	29.24 38.74	29.12 28.86	28.99 28.99 41
42 30.21 29.18 43 30.93 39.87	30.08 29.31	29.96 29.44	29.83 29.57	29.70 29.70 42
43 30.93 39.87 44 31.65 30.56	30.80 30.00	30.67 30.14 31.58 30.84	30.54 30.27	30.41 30.41 45
45 32.37 31.26	32.23 31.40	32.10 31.54	31.96 31.68	31.11 31.11 44
4633.0931.95	32.95 52.10	32.81 32.24	32.67 32.38	32.53 32.53 46
47 33.81 32.65	33.67 32.80	33.52 32.94	33.38 33.09	33.23 33.23 47
4834.533334	34.38 33.49	34.24 33.64	34.09 33.79	33.94 33.94 48
49 35:25 34.04	35.10 34.19	34.95 34.34	34.80 34.50	34.65 34.65 49
50 35.97 34.73	35,82 34.89	35.66 35.05	35.51 35.20	35.36 35.36 50
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	44 Deg.	441 Deg.	441 Deg.	443 Deg.	45 Deg.   C	-0
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1	Lat. Dep.	Lat. Dep.	Lat. Dep.	Lat. Dep	Lat. Dep. &	H
	6.69 35.43	36.53 35.59	36.38 35.75	36.22 35.90	36.06 36.06 51	
523	7.41 36.12	37.25 36.29	37.09 36.45	36.93 36.61	36.77 36.77 52	
53 3	8.1236.82	37.96 36.98	37.80 37.15	37.64 37.31	37.48 37.48 53	
1 543	8.84 37.51	38.68 37.68	38.52 37.85	38.35 38.02	38.18 38.18 54	
	9.56 38.21	39.40 38.38	39.23 38.55	39.06 38.72	38.89 38.89 55	
	0.28 38.90	40.11 39.08	39.94 39.25	39.77 39.42	39.60 39.60 56	
	1.00 39.60	40.83 39.77	40.66 39.95	40.48 40.13	40.31 40.31 57	
	1.72 40.29	41.55 40.47	41.37 40.65	41.19 40.83	41.01 41.01 58	
	2.44 40.98 3.16 41.68	42.26 41.17	42.08 41.35	41.90 41.54	41.72 41.72 59	
		42.98 41.87	42.79 42.05	42,61 42.24	42.43 42.43 60	
	3.88 42.37	43.69 42.57	43.51 42.76	43.32 42.94	43.13 43.13 61	ш
624	4.60 43.07	44.41 43.26	44.22 43.46	44.03 43.65	43.84 43.84 62	
	5.32 43.76	45.13 43.96	44.93 44.16	44.74 44.35	44.55 44.55 63	ш
	6.04 44.46	45.84 44.66	45.65 44.86	45.45 45.06	45.25 45.25 64	и
	6.76 45.15	46.56 45.36	56.36 45.56	46.16 45.76	45.96 45.96 65	
	7.48 45.85	47.28 46.05	47.07 46.26	46.87 46.47	46.67 46.67 66	
	8.29 46.54	47.99 46.75	47.79 46.96	47.58 47.17	47.38 47.38 67	18
684	8.92 47.24	48.71.47.45	48.50 47.66	48.29 47.87	48.08 48.08 68	1
694	9.63 47.93	49.42 48.15	49.21 48.36	49.00 48.58	48.79 48.79 69	
	0.35 48.63	50.14 48.85	49.93 49.06	49.71 49.28	49.50 49.50 70	ш
	1.07 49.32	50.86 49.54	50.64 49.76	50.42 49.99	50.20 50.20 71	1
725	1.79 50.02	51.57 50.24	51.35 50.47	51.13 50.69	50.91 50.91 72	ш
	2.51 50.71	52.29 50.94	52.07 51.17	51.84 51.39	51.62 51.62 73	и
	3.23 51.40	53.01 51.64	52.78 51.87	52.55 52.10	52.33 52.33 74	4
75 5.	.95 52.10	53.72 52.33	53.49 52.57	53.26 52.80	53.03 53.03 75	ш
	4.67 52.79	54.44 53.03	54.21 53.27	53.97 53.51	53.74 53.74 76	П
	5.39 53.49	55.16 53.73	54.92 53.97	54.68 54.21	54.45 54.45 77	ш
	5.11 54.18	55.87 54.43	55.63 54.67	55.39 54.91	55.15 55.15 78	1
	5.83 54.88	56.59 55.13	56.35 55.37	56.10 55.62	55.86 55.86 79	11
-	7.55 55.57	57.30 55.82	57.06 56.07	56.81 56.32	56.57 56.57 80	ш
	8.27 56.27	58.02 56.52	57.77 56.77	57.52 57.03	57.28 57.28 81	1
82 5	8.99 56.96	58.74 57.22	58.49 57.47	58.24 57.73	57.98 57.98 82	1
	9.71 57.66	59.45 57.92	59.20 58.18	58.95 58.43	58.69 58.69 83	м
	0.42 58.35	60.17 58.61	59.91 58.88	59.66 59.14	59.40 59.40 84	1
	1.14 59.05	60.89 59.31	60.63 59.58	60.37 59.84	60.10 60.10 85	ш
	1.86 59.74	61.60 60.01	61.34 60.28	61.08 60.55	60.81 60.81 86	Ä
	2.58 60.44	62.32 60.71	62.05 60.98	61.79 61.25	61.52 61.52 87	4
	3.30 61.13	63.03 61.41	62.77 61.68	62.50 61.95	62.23 62.23 88	1
	1.02 61.82	63.75 62.10	63.48 62.38	63.21 62.66	62.93 62.93 89	1
The second second	4.74 62.52	64.47 62.80	64.19 63.08	63.92 63.36	63.64 63.64 90	1
	5.46 65.21	65.18 65.50	64.91 63.78	64.63 64.07	64.35 64.35 91	
92 6	5.18 63.91	65.90 64 20	65.62 64.48	65.34 64.77	65.05 65.05 92	1
93 60	5.90 64.60	66.62 64.89	66.33 65.18	66.05 05.47	65.76 65.76 93	1
	7.62 65.30	67.33 65.59	67.05 65.89	66.76 66.18	66.47 66.47 94	1
	3.34 65.99	68.05 66.29	67.76 66.59	67.47 66.88	67.18 67.18 95	1
	0.06 66.69	68.76 66.99	68.47 67.29	68.18 67.59	67.88 67.88 96	1
	0.78 67.38	69.48 67.69	69.19 67.99	68.89 68.29	68.59 68.59 97	1
	0.50 68.08	70.20 68.38	69.90 68 69	69.60 68,99	69.30 69.30 98	1
99 71	.21 68.77	70.91 69.08	70.61 69.39	70.51 69.70	70.00 70.00, 99	
	.98 69.47	71.63 69.78	71.33 70.09	71.02 70.40	70.71 70.71 100	1
D	ep, Lat.	Dep. Lat.	Dep. Lat.	Dep. Lat.	Dep Lat	1
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	The Real Property lies					佐

## TABLE

## LOGARITHMS,

FROM 1 TO 10,000.

Note. The index of the logarithm of every integer number consisting of only one figure is 0, of two figures 1, of three figures 2, of four figures 3, being always an unit less than the number of figures contained in the integer number. In this table, as is generally the case, the index to the logarithm of every number above 100 is omitted; yet in the operation must be prefixed according to this remark; so the logarithm of 700 is 2.34510, and of 7000 is 3.84510, and so of the rest.

墨		-	-	_	-	_	-		-	
Ì	No	Log.	No	Log.	No	Log.	No	Log.	No	Log.
r		0.00000	21	1.32222	41	1.61278	61	1.78533	81	1.90849
и	2	0.30103	22	34242	42	62325	62	79239	82	91381
ĸ	3	0.47712	33	36173	43	63347	63	79934	83	91908
ı	4	0.60206	24	38021	44	64345	64	80618	84	92428
п	5	0.69897	25	39794	45	65321	05	81291	85	92942
ı	O	-0.7781.5		41497	46	66276		81954	86	93450
и	7	0.84510	27	4\$136	47	67210		82607	87	93952
в	8	0.90309		44716		68124		83251	88	94448
ı	9	0.95424		46240	49	69020		83885	89	94939
ĸ	10	1,00000	30	47712	50	69897	70	84510	90	95424
1	1.1	1.04139	31	1.40136	51	1.70757	71	1.85126	91	1.95904
ı	12	07918	33	50515	52	71600	72	85733	92	96379
и	13	11394	33	51831	53	72428	73	86332	93	96848
п	14	14613		55148		73239	74	86923	94	97313
н	15	17609		54407	55	74036	75	87506	95	97772
li	16	20412		55530		74819		88081	96	98227
1	17	23045		56820	57	75587		88649	97	98677
	18	25527	38	57978	58	76343		89209	98	99123
	19	27875	39	59106		- 77085		89763		99564
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100	00432	00042	00000	00561	00604	00647	00690	002303	00340	00017	ı
101	00960	000000	00015	000000	01020	01070	01115	01157	01100	01040	ı
102	00860 01284	00903	01943	01410	01450	01072	011115	01137	01199	01242	ı
103	01284	01320	01308	01410	01452	01010	01050	01005	01020	01001	ı
104	01703	01745	01787	01828	01870	01912	01955	01995	02030	02077	1
105	02119 02531	02166	02202	02243	02284	02325	02300	02407	02449	02490	ı
106	02531	02572	02612	02053	02094	02733	02776	02816	02857	02898	ı
107	02938	02979	03019	03060	03100	03141	03181	03222	03202	03302	ı
108		03383	03423	03463	03503	03543	03585	03623	03003	03703	ì
109	03743	03782	05822	03862	03902	03941	03981	04021	04060	04100	a
110	04139	04179	04218	04257	04297	04336	04375	04415	04454	04493	ı
111	04532	04571	04610	04649	04688	04727	04766	04805	04844	04883	1
112	04922	04961	04999	05038	05077	05115	05154	05192	05231	05269	ı
113	05308	05346	05385	05423	05461	05500	05538	05576	05614	05652	П
114	05690	05729	05767	05805	05843	05880	05918	05956	05994	06032	П
115	06070	06108	06145	06183	06221	06258	06296	06333	06371	06408	П
1116	06446	06483	06521	06558	06595	06633	06670	06707	06744	06781	П
117	06819	06856	06893	06930	06967	07004	07041	07078	07114	07151	ı
											ı
119	07555	07591	07628	07664	07700	07737	07773	07809	07846	07518 07882	ı
120		07954		09000	09060	08099	09124	00171	1,000	08243	1
				00021	08499	08458	00133	09500	00201	00243	ı
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122	08030	08672	00061	00000	001/0	00014	00049	00000	00020	00000	1
123	08991 09342	09020	09001	09097	09131	09107	09202	09237	09272	09307	ı
124	09342	09377	09412	09447	000000	09317	09502	09587	09021	09656	ı
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	10037	10071	10106	10140	10175	10209	10243	10278	10312	10346	ı
Blocked A	10380		10449	10483	10517	10551	10585	10619	10653	10687	ı
128		10755								E. W. C. GOLD.	ı
129	11059	11093	11126	11160	11193	11227	11260	11294	11327	11361	ı
130	11394	11428				11561					I
131	11727	11760	11793	11826	11860	11893	11926	11959	11991	12024	а
132	12057	12090	12123	12156	12189	12222	12254	12287	12320	12352	ı
133	12385	12418	12450	12485	12516	12548	12581	12613	12646	12678	П
134	12385 12710 13033	12743	12775	12808	12840	12872	12904	12937	12969	13001	ı
135	13033	13065	13098	13130	13162	13194	13226	13258	13290	13322	И
136	1.3354	13386	13418	13450	13481	13513	13545	13577	13609	13640	И
137	13672	13704 14019	13735	13767	13799	13830	13862	13893	13925	13956	ı
138	13988	14019	14051	14082	14114	14145	14176	14208	14239	14270	ı
139	14301	14333	14364	14395	14426	14457	14488	14520	14551	14582	Ì
140	100	14644	-			14768				The second second	ı
Illericates.	Indicate State of the last	14953				15076				15198	н
			15290	15320	15351	15381	15419	15/40	15473		ı
		15564							15776	15006	ı
144	15996	15966	1.5006	15097	15057	1 5097	16017	16045	16077	16107	1
143	15836 16137	16167	16107	16998	16956	16006	16016	16946	16077	16407	ı
146	16435	16465	16404	16594	16554	16594	16619	16640	16679	16700	١
	16732										ı
148	17000	17055	17/10-	17114	17149	17770	17900	17003	17060	16997	1
149	17010	17240	17000	17406	17495	17464	17/100	17:00			1
		17348		_				-	1, 551	Sales and the last	
	17609					17754				17869	1
		17926						18099		18150	ı
152	18148					18327				18441	
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154	18752	18780	18808	18857	18865	18893	18921	18949	18977	19005	
155	19033 19312	19061	19089	19117	19145	19173	19201	19229	19257	19285	
156	19312	19340	19368	19396	19424	19451	19479	19507	19535	19363	
157	19590	19618	19645	19673	19700	19728	19756	19783	19811	19838	
		19893								S0155	1
159	20140	20167	20194	20222	20249	20276	20303	32033	0/20/35	10/50282	8
ALC: UNKNOWN	Name and Address of the Owner, where the Owner, which is the Owner, where the Owner, which is the Owner, where the Owner, which is the Owner, whic		The state of the s	The said		-	1000	The second	-		

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I	No	0	1	2	3	4	.5	6	7	8	9
И	280	44716		44747	44762			44809	44824		THE CONTRACTOR IN
ı	281	44871	44886	44901	44917	44932	44948	44903	44979	44994	45009
ı	202	45170	45104	45000	45071	45940	45755	45117	45133	45148	45163 45316 45469
ı	284	45332	45347	45362	45378	45393	45408	45423	45430	45301	45469
ı	285	4.5484	45500	115515	45530	145545	45561	45576	45501	45606	45021
ı	286	45637	45652	45657	45682	45697	45712	45728	45743	45758	45773
I	287	45788	45803	45818	45834	45849	45712 45864	45879	45894	45909	45924
I	288	45939	43954	45969	45984	40000	40015	46030	46045	46060	46075
l											46225
I	290	46240	46255	46270	46285	46300	46315	46330	46344	46359	46374
ı	291	46539	46553	15568	16582	46508	46613	46697	46494	46508	46523 46672
ı	293	46687	46702	46716	46731	46746	46761	46776	46790	46007	46820
ı	294	46835	46849	46864	46879	46894	46908	46923	46938	46953	46967
ı	295	46982	46997	47012	47026	47041	47056	47070	47085	47100	46967 47114 47261
В	296	47129	47144	47158	47173	47188	47202	47217	47232	47246	47261
1	297	10 Y 22 Y 16	147290	10/2004	27319	147334	47.349	147363	17777	ATOOC	147407
ı	298	47422	47436	47451	47465	47480	47494	47510	47523	47538	47553 47698
ı	299	4/50/	47582	47590	47011	4/025	4/040	47654	47669	47683	47698
ı	300	47712	47727	47741	47755	47770	47784	47799	47813	47828	47842 47986
ŀ	301	4/85/	47871	47885	47900	47914	47929	47943	47957	4797	47986
ı	303	48144	48150	48179	48197	148905	48016	48930	40044	48110	48130
ı	2000	Uli i Salatan	HALLEST VO.	MARCIE	1000000	HARRAD	01/10/2004		LACTOR	ADADA	ADATE
ı	305	48430	48444	48458	4847	48487	48501	48515	48529	4854	48558 48700 48841 48982
ı	306	48572	48586	48600	48615	48629	48643	48657	48671	4868	48700
ı	307	48714	48728	48742	48756	48770	48784	48799	48813	48827	48841
ı	308	48855	48869	48883	48897	48911	48925	48940	48954	48968	48982
ı	305	148990	49010	149024	49038	49052	49000	49080	49094	49108	49122
ı	310	49136	49150	49164	49178	49192	49206	49220	49234	40248	49262
ı	311	49276	49290	49304	49318	49833	49346	49360	49374	49388	49501 5 49501
ı	315	4941	49425	49410	49457	49471	49485	49499	49513	40527	49501
ı	312	140600	49708	19383	40724	49010	49024	49038	49651	49663	40670
ı	31	49093	40444	49850	49879	49886	40900	40014	49790	4980	49955
ı	316	4.9950	49985	149998	50010	50024	50032	50051	5005	5007	50000
ı	317	50100	50120	50135	50147	50161	50174	50188	50202	5021	5 50229 5 365 8 50501
ı	318	50243	5025	50270	50284	50297	50311	50325	50338	5035	5 365
ľ	319	50379	50393	50400	50420	50433	50447	50461	50474	5048	50501
ı	320	5051	5052.	50540	50550	50509	50583	50596	50610	5062	3 50637
ı	321	50650	50664	50678	3 50691	150705	50718	50732	50745	5075	50772
ı	329	50786	50799	5081	50820	50839	5085	50866	50880	5089	3 50907
ı	32	350920	150934	50947	510961	50974	50987	51001	51014	5102	8 51041 2 51175 5 51308
ı	324	151054	51000	5100	5109	51046	5105	51130	5114	5116	2:51175
ŀ	1 2 24	915 1 3 2 2 3	2LS T 13 3 5	315 1 374	1151 1150		STATE BEING	415-121009	7151/11/1	CHAO	DISTANT
ı	305	5145	51468	5148	5149	51508	51521	51534	51548	5156	151574
ı	328	51587	51601	151614	51627	5164	5165	51667	51680	5169	3 51706
ı	32	51730	N51733	3 51740	51759	51779	5178	51799	51815	5182	551838
ı	330										5 5 1 9 7 0
	331	15198	3 51990	52009	52029	2 52033	52048	52061	52074	5208	52101
	335	5211	159197	75714	15015	3 79160	150170	59109	59904	2001	59991
M	333	5224	152257	52270	15228	352297	52310	52325	52330	5234	52362
	33	52375	513 Z 3 H	10502410	11350340 W	NEW DIS	过程 使万形形	115024.51	59466	150A7	COACH
1	30	3230	15064	1068	15767	05000	52505	5021	52595	5260	8,52621
	000	5075	15077	5.5079	5080	2000	52020	5084	5000	5273	8,52621 752750 6 52879
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ı	Aure		-	<b>HEATTER</b>	200	-		-			

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I	No	0	11	2	3	4	1 5	1 6	7	8	9
	340	53148	53161	53173	53186	53199	53212	53224	53:237	53250	53263
н		53975	53988	53901	53314	52396	53339	49950	52264	50077	50000
П	349	53403	53415	53498	53441	53453	53466	53470	53401	55504	53517
Ш	343	53590	53549	53555	53567	53580	53593	53605	53618	53631	53643
H							53719			51755	52750
Ш		53782	53794	53707	53820	53839	53845	53857	53870	53882	53895
i			53990	53933	53945	53658	53970	53083			
H							54095				
N							54220				54270
II							54345				54394
ı	350			54432	-	-	54469			54506	5/510
П							54592	54605	54617	54530	54640
Н	352	54654	54667	54670	54691	54704	54716	54728	54740	54753	54765
Ш	353	54777	54790	5480	1814	54897	54839	54851	54863	54876	54588
Н	354	54900	54913	54995	54937	54949	54962	54974	54986	54998	55011
ı	355	55023	55035	55047	55059	55072	55084	55096	55108	55121	55133
n							55206				
u	357	55267	55279	55291	55303	55315	55328	55340	55552	55364	55376
Ш	358	55387	55400	55413	55425	55437	55449	55461	55473	55485	55497
		55509	55521	55534	55546	55558	55570	55582	55594	55606	55618
1	-	-	-		55666	-	55690	_	-	STATE OF THE PERSON.	20,000,000
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ı							55931				
	363	55991	56003	56015	56026	56039	56050	56062	56074	56086	56098
	364	56110	56122	56134	56146	56158	56170	56182	56194	56205	
		56229	56241	56253	56265	56277	56289	56301	56312	56324	
ı	366	56348	56360	56372	56384	56395	56407	56419	56431	56443	56455
1	367						56526				56573
ı	368	56585	56597	56608	56620	56632	56644	56655	56667	56679	56691
3	369	56473	56714	56726	56738	56750	56761	56773	56785	56797	56808
ı	370	56820	56833	56844	56855	56867	56879	56890	56902	56914	56926
1	371	56937	56949	56961	56972	56984	56996	57008	57019	57031	57043
ı		57054	57066	57078	57089	57101	57113	57124	57136	57148	57159
ŀ	375	57171	57182	57194	57206	57217	57229	57241	57252	57264	57275
R	374	57287	57299	57310	57322	57334	57345	57357	57268	57380	57391
E	375	5740.		57426	57438	57449	57461	57473	57484	57496	57507
Ē	376	7519	57530	57542	57553	57565	57576	57588	57600	57611	57625
		7634	57646	57657	57669	57680	57692	57703	57715	57726	57738
		7748	3//01/	011121	2/ / 84	017901	37 807 3	2/ 8181		57 84 118	7852
ľ	379	7864					57921				57967
B	330	7978		58001			58035				58081
	60-DH 1		58104	8115	58127	58158	58149	58161	8172	58184	58195
	militari di M						58263				58308
		8320	58331	83434	58354	8365	58376	58388	8399		
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	остория ви	8659	080703	8081	8092	08704	58715	8720	08737		
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	1935	94395	9450	9461	0.500	0.504	59494 59605 5	93035	9010	06:10	0640
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ř	No	0	11	2	3	4	5	6	7	8	9
ı	400	60206	60217	60228	60239	60249	60260	80271	60282	60293	
1	401	60314	60325	60336	60347	60358	60369	60379	60390	60401	60412
ı	402	60423	60433	50444	60450	60466	60477	60505	60498	60509	60520
u	404	60638	60649	60660	60670	60681	60692	60703	60713	60724	60735
u	405	60746	60756	60767	60778	60788	60799	60810	60820	60831	60842
ı	406	60853	60865	60874	60885	60895	60996	60917	60927	60938	60627 60735 60842 60949
ı											
ı	400	61179	61183	51194	61204	61215	61225	61236	61247	61257	61162
k	410	51978	61289	61300	61316	61321	61331	61342	61352	61363	61874
K	411	61384	61395	51405	61416	61426	61437	61447	61458	61469	61874 61479
U	412	51490	61500	61511	61521	61532	61542	61553	61563	61574	61584 61689 61794 61899
ı	413	61595	61605	61616	61626	61637	61648	- 58 - 37 - 37 - 37	61669	61675	61689
u	414	61805	61916	61926	61836	61947	61857	61868	61978	61888	861800
ı	416	51909	61920	61930	61941	61951	61961	61972	61982	61993	62003
Į	417	62014	62024	62034	62045	62055	62066	62076	62086	62097	62107
ı	418	62118	62128	62138	62149	62159	62169	62180	62190	6220	62003 62107 62211
ı	AP 1 25	02221	02232	02242	02232	02200	03210	02500	0.0294	0400	402313
ı				62546							62418
ı	420	60531	62541	62449	69569	02409	62480	6 503	62603	6261	62521
ı	423	62634	53544	62655	6256	62675	62685	62696	62706	6271	3 02624 5 02726 8 62829
ı	424	62737	62747	62757	62767	62778	62788	62798	62808	6281	8 62829
ı	APCC/28	1000000000	110 3040 53007		102019	ID 2000U		110000000000	(ONSHITT)		THE PROPERTY OF
۱	426	52941	62951	62961	62971	62982	62992	63002	63012	6302	2 63033 4 63134
ı	427	53144	63154	63063 63165	63175	63183	68195	63904	63914	6399	5 6 3 9 9 6
١	429	53246	63256	63266	63266	63286	63296	63306	63316	6332	7 63337
ı	430	63347	63357	63367	63377	63387	63397	63407	634.17	6342	8 63438
ı	431	63448	63458	63468 63598 63569	63478	63488	63498	63508	63518	6352	8 6G538
ı	432	63548	63558	63598	63578	63589	63599	63609	63619	6362	63639
ı	433	63049	62059	63009	63079	62790	03099	60800	60010	6000	BOTOS
i	435	63849	63859	63859	63879	63889	63899	63909	63919	6890	63939 64038
I	436	68949	63959	63969	63978	63988	63998	64008	64018	6402	64038
ı	437	154048	104058	64068	64078	04088	64098	64108	64118	6412	164137
Į	438	64147	64157	64167 64266	64177	64187	64197	04207	64217	64227	64237
ı	439										64335
1	440	54444	64454	04303	64473	64483	64403	64503	64513	6450	64434 64532
ł	442	04542	64552	64562	64572	64581	64591	64601	64611	6462	164631
ł	443	34500	50550	GARRO	GAGTO	JEARDIN	EARRO	BASOD	BATIK	64736	60000
ì	444	54730	64748	64758	64768	64777	64787	64797	64807	6481	664826
١	445	04838	6404	54050	04865	64875	64080	64894	64904	6491	165021
ł	447	05031	65040	65050	65050	65070	65079	65089	65099	6510	365118
ı	448	65128	55137	65147	65157	65177	65176	65186	65196	6520	8 65118 5 65215
Ī	430	02552	0000116	100544	00204	03213	03273	00280	03292	0330	205512
i	450	65321	35331	65340	6535()	65360	65369	65379	65389	65398	65408
1	451	05418	05427	05437	65446	65456	65466	65475	65485	6549	65504
	453	6361	15610	65690	65620	65648	65659	65669	65677	6568	65600 65696 65792 65887
1	454	5.57 (K	85713	65725	65734	65744	65753	65793	65772	65785	65799
1	455	55801	65811	65820	65830	65839	65849	65858	65868	65877	65887
1	4.50	157200	05900	65915	65925	65935	65944	65954	65963	6597	65982 66077 66172
	544	SELION	55000	10001	05020	66030	06039	66149	661 50	6676	66077
I	4.50	55(8)	6619	6620	06691	06621	9/6622	9/6623	86624	1/6695	1 66566
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Ш	No		00000	- A	3	T.COLO	0	6	V	0	M	ı
H	460			66389		66.448	66417	66332	66342	66351	66455	A
Ш	401	66464	66474	66483	66492	66502	66511	66521	66530	66530	66549	ı
Ц	463	66558	66567	66483 66577	66586	00596	66605	66614	66624	66633	66642	ă.
II	404	100052	100001	20070	DODDBU	100089	00099	1007118	00717	0.07	1007.50	ı
IJ	465	66745	66755	66764	60773	66783	66792	66801	66811	6082	66829	1
H	466	66839	66848	66764 66857 66950	66866	66676	66885	66894	66904	66913	66922	I
ı	407	00932	67.004	00950	00900	66969	66978	66987	66997	65006	67015	ı
I	408	67117	67196	67043 67136	67145	67152	67164	67170	67089	67101	67200	п
ı	403	CTOLO	67120	67000	67007	07 134	6704	07 173	07 102 ETWA	67097	67200	ı
ï	470	67310	67311	67228 67320	67330	67330	67944	67257	67267	67376	67995	ı
ı	470	67394	67403	67418	67422	674.31	67440	67440	674.59	67468	67477	ı
ı	473	67486	67495	67504	67514	67523	67532	67.541	67550	67559	67569	n
ı	474	67578	67587	67596	67605	67614	67624	67633	67642	67651	67660	н
ä	475	67.669	67678	67504 67596 67688	67697	67706	67715	67724	67733	67742	67752	ı
ı	476	67761	67770	67779 67870	67788	67797	67806	67815	67824	67834	67843	п
ı	477	67852	67861	67870	67879	67888	67897	67906	67915	67925	67934	а
ı	478	680943	69040	67961 68052	69061	69070	69/370	600.00	68000	69106	08024	ı
ı												a
I				68142 68233								ı
И	499	68305	68314	68323	68332	68341	68350	68350	68368	68377	68386	ı
	4863	68395	68404	08413	68422	684.1	08440	08440	08458	08407	68476	ı
u	484	68484	68493	68502 68592 68681	68511	68520	68529	68538	68547	68556	68565	ı
ı	485	68574	68583	68592	68601	68610	68619	68628	68637	68646	68655	ı
И	486	68664	68673	68681	68690	68699	68708	68717	68726	68735	68744	ı
и	487	68753	68762	68771	68780	68789	68797	68806	68815	68824	68833	ı
				68860								ı
				68949								ı
ı	490	69020	69028	69037	69046	69055	69064	69073	69082	69090	69099	ı
ı	491	60106	699117	69126	60000	60000	60041	69249	60050	60067	69188	ı
	103	69295	60903	69214 69302	60211	60200	60390					ı
и	494	69373	69381	59390	69390	69408	69408	69495	69424	69443	69452	и
ı	495	69460	69469	69478	69487	69496	69496	69513	69522	69531	69539	ı
V	496	69548	69557	69478 69566	69574	69583	69517	69601	69609	69618	69627	и
В	497	69636	69644	69653	69662	69671	69504	69688	69697	69705	69714	ı
	498	69723	69732	69740	69749	69758	69758					ı
	_	69810				69845		69862				п
		69897	69906	69914 70001	69923	69932	69940	69946	69958	69966	69975	ı
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		DESCRIPTION OF THE PARTY OF THE	69992	70000	70010	70018	70027	70036	70044	70053	70062	ı
ı	502	70070	70079	70088	70190	70103	20000	70122	70131	70226	70148	1
1	504	70248	70959	70174 70260 70346 70432 70518	70269	70277	70286	70205	70303	70319	70321	п
ı	505	70329	70338	70346	70355	70363	70372	70381	70589	70398	70406	н
1	506	70415	70424	70432	70441	70449	70458	70466	70475	70484	70492	п
ı	507	70501	70509	70518	70526	70535	70544	70552	70561	70569	70578	ı
	300	0.300	( 4333)	I MODULI	10013	10021	100291	10000	10040	10000	10003	п
I	509	70672	70680	70689	70697	70706	70714	70723	70731	70740	70748	п
ı	510	70757	70765	70774	70783	70791	70800	70808	70817	70825	70834	
	511	0842	70851	70774 70859 70943	70868	70876	70885	70893	70901	70910	70918	1
1	312	10727	1000	71000	10252	71045	70969	71060	71071	71070	71003	
1	510	21005	71105	71029 71113 71198	71199	71130	71139	71147	71155	71164	71088	1
	516	71181	71180	71108	71200	71914	71993	71981	71940	71049	71956	1
	516	71265	1273	71280	71290	71299	71307	71315	71324	71339	71341	
	517	71349	1357	71282 71366 71450	71374	71383	71391	71399	71408	71416	71425	
1	518	71433	71431	71450	71458	71466	71475	71483	71492	71500	71508	1
1	519	1517	71525	71533	71542	71550	71559	71567	71575	17 7 284	(715M	1
14	-	-	-		_	-	-	-	-	_	_	

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	No	0	1	2	8	4	5	6	7	8	9
I	520	71600	71609	71017	71625	71634	71042	71650 71734 71817 71900	71659	71667	71075
ı	500	71767	71775	71784	71799	71800	71/25	71817	71742	71730	71709
u	523	71850	71858	71867	71875	71883	71892	71900	71908	71916	71925
ı	524	71933	71941	71950	71958	71966	71974	71983	71991	71999	72008
ı	525	72016	72024	72032	72041	72049	72057	72065	72074	72082	72000
ı	526	72099	72107	72115	72128	72132	72140	71983 72065 72147 72230 72313 72395	72156	72165	72173
1	527	72181	72189	72197	72200	72214	72222	72230	72239	72247	72255
ı	500	72346	79354	79360	79370	72378	72304	79305	79403	72329	72337
ı	520	70409	79496	79444	79459	79460	79468	79477	79485	79402	70503
Н	531	72509	72518	72526	72534	72542	72550	72558	72567	79575	72501 72583
Ш	532	72591	72599	72609	72616	72624	72632	72640	72648	72656	72583 72665 72746 72827 72908 72989 73070 73151 73231
ı	533	72673	72681	72689	72697	72705	72713	72722	72730	72738	72746
Ш	534	72754	72762	72770	72778	72787	72795	72803	72811	72819	72827
ı	535	72835	72843	72852	72860	72868	72876	72884	72892	72900	72908
I	507	72910	73005	72933	72000	72949	72038	72040	72054	72981	72989
H	538	73071	73086	73094	73102	73110	73119	73197	73135	73143	78151
Ш	539	73159	75167	73175	73183	73191	73199	73207	73215	73223	73291
Ш	File	H0000	23042	TOO - 5	70060	70071	M300/	70000	7200C	230/14	W0000
H											
H	542	73400	73408	73416	73424	73432	73440	73368 73448	73456	73464	73392 73472 73552 73632 73711 73791 73870 73949 74028
H	543	73480	73488	73496	73504	73512	73520	73528	73536	73544	73552
Н	544	73560	73568	73576	73684	73592	73600	73608	73616	73623	73632
Н	545	73640	73048	73030	73003	79751	73079	73087	73093	73708	73711
II	547	73700	73807	73815	73899	73830	73838	73876	73854	73869	73870
Ш	548	73878	73886	73894	73902	73910	73918	73926	73933	73941	73040
Ш	549	73957	73965	73973	73981	73989	73997	74005	74013	74020	74028
Ш	550	74036	74044	74052	74060	74068	74076	74084 74162 74241 74320 74398 74479	74091	74099	74107
H	551	74115	74123	74131	74139	74147	74155	74162	74170	74178	74186
П	552	74194	74202	74210	74217	74225	74233	74241	74249	74257	74265
Ш	553	74272	74280	74288	74296	74304	74312	74320	74327	74385	74343
Н	554	74351	74359	74307	74459	74/61	74390	74398	74406	74414	74421
U	556	74507	74515	74593	74531	74530	74546	74554	74569	74570	74578
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Ш	558	74663	74671	74679	74687	74694	74702	74632 74710	74718	74726	74733
I	EFA	アルデルス	マッケバロ	権人物と可	アイブルイ	フルフクロ)	マハママの	WAMDO	フォグロミ	7.4D/10	74811
Ш	560	74819	74827	74834	74842	74850	74858	74865 74948	74873	74881	74888
H	561	74896	74904	74912	74919	74927	74935	74943	74950	74958	74966
H	562	74974	74981	74989	74997	75004	75012	75020	75028	75035	75043
ı	563	75051	7 5059 T 5136	75000	75151	75150	75166	74948 75020 75097 75174	75189	75112	75120
li	565	75205	75919	75220	75998	75236	75943	75951	75-250	75966	75974
i	566	75282	75289	75297	75305	75312	75320	75251 75328 75404	75335	75343	75351
I	567	75358	75366	75375	75381	75389	75397	75404	75412	75419	75427
Ĭ.	568	75435	75442	75450	75458	75465	75473	75481 75557	75488	75496	75504
Ш	569	75511	75519	75526	75534	75542	75549	75557	75565	755712	75580
	570	75587	75595	75603	75610	75618	5626	75633	75641	75648	15656
	571	75064	75671	7.5679	7 3686	75094	5702	75709	5717	5724	75732
	572	75915	75800	75003	75899	75946	75950	75961	75950	25076	75884
	574	75801	75890	75906	75014	75091	750901	75937	7594/1	75959	75950
	575	75067	75974	75982	75989	75997	76005	75019	76020	6027	76035
	576	76042	76050	76057	76065	76072	76080	76087	76095	6102	76110
	577	76118	76125	76133	76140	76148	76155	76163	76170	76178	76185
1	578	6193	76200	76208	76215	76223	76230	762387	6245	6253	76260
1	797	6268	70275	76283	14.6530	1/2 0538	0305	75557 75633 75709 75785 75861 75861 75937 76012 76087 76163 76238	(0320	1 6328	10272
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65, 91491 81498 81505 81511 81518 81525 81531 81538 81544 81551 654 81558 81564 81571 81578 81584 81591 81598 81604 81611 81617
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656 81690 81697 81704 81710 81717 81723 81730 81737 81743 81750
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658 81823 81829 61836 81842 81849 81856 81862 81869 81875 81882   659 81889 81895 81902 81908 81915 81921 81928 81935 81941 81948
659 81889 81893 81902 81908 81915 81921 81928 81935 81941 81948 660 81954 81961 81968 81974 81981 81987 81994 82000 82007 82014
66182020820278203382040820468205382059820668207382073
661 82020 82027 82033 82040 82046 83053 82059 82066 82073 82079  662 83086 82092 83099 83105 82112 82119 82125 83132 92138 82145  663 82151 82158 82164 82171 82177 82184 83191 82197 82204 82210
663 82151 82158 82164 82171 82177 82184 82191 82197 82204 82210
II 664 82217 82223 82230 82230 82245 82249 82256 82263 82269 82276 II
665 82382 82383 82295 82302 82308 82315 92321 82328 82334 82341
1 667 82413 82419 82426 82432 82439 82445 82452 82458 82465 82471
668 82478 82484 82491 82497 82504 82510 82517 82523 82530 82536
660 83347 82354 82360 82367 82373 82380 82387 82393 82400 82406 667 82413 82419 82426 82432 82439 82445 82452 82438 82465 82471 668 82478 82484 82491 82497 82504 82510 82517 82523 82530 82536 669 82543 82549 82556 82562 82569 82575 82582 82588 82595 82601
670  62607  62614  82620  82627  82633  82640  82646  82653  82659   <b>82666</b>
674 82672 82679 82685 82692 82698 82705 82711 82718 82724 82730 672 82737 82743 82750 82756 82763 82769 82776 82782 82789 82795
673 82802 82808 82814 82821 82827 82834 82840 82847 82853 82859
673,83802,82806,52814,82821,82827,82834,82840,82847,82853,82859,674,82866,82872,82879,82885,82892,82898,82905,82911,82918,82924,673,82930,82937,82943,82950,82956,82969,82975,82982,82988
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68283578833858339183398834048341083417834238342983436
6818331383321833278333483340833478333598359836683372 68283578833858339183398834048341083417834238342983436 66383442834488345583461834678347483480834878349383499 68483506835128351883525835318353783544835508355683563
63583569835758358283588833948360183607836138362083626 68683632836398363983651836588366483670836778368383689 68783696857028370883715837218372783734837408374683745
686 83632 83639 83645 83651 83658 83664 83670 83677 83683 83689
688 83759 83765 83771 83778 83784 83790 83797 83803 83809 83816
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090 33883 83891 83897 83904 83910 83916 83923 83929 83935 83942
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1 092/64011/64017/64023/64029/84036/84049/84048/84055/84061/64067
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Costo Pris October 100 october

ì	Np	0	1	2	1 3	4	1 5	6	7	8	9
ı	760	88081	88087	88093	88098	88104	88110	-	88121	88127	88133
ı	761	88138	38144	8815U	88156	88161	88167	88173	88178	88184	88190
ı	762					88218	88284	88230	88235	88241	88247
ı	763	88252	88258	88264	88270	88275	88281	88287 88343	88292	88298	88304
ı	753	88366	84370	88264 88321 88377	00.100	88389	88395	88400	88406	88419	88300
ı	766				88440			88457			
I	767		88485		85497	88502	88508	88513	88519	88525	88530
ı	768							88570			
ı	769	Name and Address of the Owner, where	88598	200	100000	1	MODE STATE OF		The State of	District Street,	88743
H	770										88700
ı	771		88711	88717	88/22	88728	887.34	88739	88745	88750	887.56
ı	773	88818	88767 88894	88773	88835	88840	88846	88859	88857	88863	83868
I	774	88874	88880	88885	88891	88897	88902	88908	88913	88919	88995
ı	775	88930	88936	88941	88947	88953	88958	88964	88969	88975	83981
ı	776	88985	88992	88097	89003	89009	89014	89020	89025	89031	89037
A	777	89042	89048	89053	89059	89064	89070	89076	89081	89087	89092
I	778							89131 89187			
Ĭ		-				_		89243	-	_	
ı	780 781	89265	89271	89276	89282	89287	89207	89298	89304	89310	89315
ı	782	89321	89326	89339	89337	189343	89348	89354	89360	189365	189371
ı	783	89376	89382	89387	89393	89398	89404	89409 89465	89415	89431	89426
H	784	89432	89437	89443	89448	80454	89459	89465	89470	89476	89481
1	785	89487	89492	89498	89505	89509	89515	89520 89575	89526	89531	89537
H	780	80407	90602	80600	90614	80610	80695	80691	80908	80645	89592
ı	788	89653	89658	89664	89669	89675	89680	89631 89686	89691	89607	89702
١	789	89708	89713	89719	89724	89730	89735	89741	89746	89752	89757
١	790	-			100000000000000000000000000000000000000			89796	-	-	The same of
١		89818	89823	89829	89834	89840	89845	89851	89856	89869	89867
ı	792	89873	89878	89883	89889	89894	89900	89905 89960	89911	89916	89922
ı	793	89927	89933	89938	89944	89949	89955	89960	89966	89971	
ı		90037						90015			90051
ı		90091		90102	90108	90113	90119	90124	90199	9013	
ı			90151	90157	90162	90168	90173	90179	90184	90189	
ı								90233	90238	90244	90249
ı	799	90255	90260	90266	90271	90276	90282	90287	90293	90298	90304
I		90309		90320	90325	90331	90336	90342	90347	90352	
1		90363	THE REAL PROPERTY.	90374	90380	90385	90390	90396	90401	90407	
I		90417 90472						90450			
1	804	90526	90531	90536	90549	90547	90553	90558	00563	90569	
1	805	90580	90585	90590	90596	90601	90607	90558	90617	90623	of technology in the
ı	806	90534	90639	90644	90650	90655	90660	90666	90671	90677	90688
1	807	90687	90693	90698	90703	90709	90714	90720	90725	90730	90736
I	808	90741	90746	90752	90757	90763	90768	90773 90827	90779	90784	
1	The same of			-		and the same		-	100000000000000000000000000000000000000		
1	811	90905	90000	00012	00019	000004	Jangae	90881 90934	90000	90891	Selection of the Control of the Cont
1	812	90956	90961	90966	90979	90977	90989	90988	90993	90998	
1	813	91009	91014	91020	91025	91030	91036	909 <b>8</b> 8 91041	91046	91052	010-
I	814	91062	91068	91073	91078	91084	91089	91094	91100	91105	91110
1	815	91116	91121	91126	91132	91137	91142	91148	91153	91158	91164
	816	31103	01009	0191160	31102	31130	31136	91201	91200	91212	01970
	817 818	01075	0108	19198	69199	19190	79130	91094 91148 91201 91254 91254	7/9131	2/9131	891383
	810	01398	9133	49133	9913	14913	50,913	55913	60/913	65/913	17/97316
ŀ	OKO	3000	-		_	-	-	_		-	-
r		-	-								

6-								ě
M	Sine.	Co-sine.	and the second	Co-tang.	The second second	-	_	ı
0	The Company of the Company	9.99335		10.75368		Internal Contractors	60	ı
1		99333 99331	24706 24779	75294 75221	00667 00669	75961 75890	59	ı
2 3	24181	99328	24853	75147	00672	75819	57	ı
4	24253	99326	24926		00674	75747	56	۱
5	24324	99324	25000		00676		55	ł
6	24395	99322	25073	74927	00678	75605	54	î
7	24466	99319	25146		00680		53	ı
8			25219		00683	75464	52	1
9	CO ASSESS	99315	25292	State of the last	00685	75393	51	ı
10		9.99313		10.74635 74563			50	ł
11		99310 99308	25437 25510	74490	00690 00692	75252 75182	49	ı
13		99306	25582			75112	47	Н
14		99304	25655		00696		46	ı
15			25727	74273	00699		45	И
16		99299	25799	74201	00701		44	ı
17	25168	The second second	25871		00703	C C C C C C C C C C C C C C C C C C C	43	A
18		99294	25943	74057	00706		42	
19	The Contract of the Contract o	-	26015	73985	00708		41	
20						10.74623	40 39	1
21 22		99288 99285	26158 26229	73842	00712 00715	74555 74486		ı
23	25583	99283	26301	73771 73699	00717	74417	37	ı
24		99281	26372	73628	00719			ı
25	25721		26443		00722		35	ı
26	25790		26514		00724			ı
27	25858		26585					ı
		99271	26655	100000000000000000000000000000000000000			32	Н
29		99269	26726	_	00731		31	۱
30		9.99267		10.73203		10.73937	30	ı
31			26867	73133	00736			ł
32		99262 99260	26937 27008	73063 72992	00738 00741			ı
34			27078		00743			ı
35			27148		00745		25	ı
36	26470	99252	27218		00747		24	ı
37	26538		27288		00750	73462	23	ı
38				72643	00752		22	ı
39		99245	27427	72573	00755	73328	21	ı
40		9.99243		10.72504			20	
41			27566		00759	73193	19	
42	26873 26940	99238 99236	27635 27704		00762	73127	18	
43		99230	27773		00764 00766	73060	17	
45		99231	27842	72158	00769	72990	15	
46		99229	27911		00771	TO STREET	14	1
47	27206	99226	27980	72020	00774	72794	13	
48		99224	28049	71951	00776	72727	12	
49		_	28117	71883	00779	72661	11	
50		All residence of the latest and the		10.71814			10	ı
51		99217	28254		00783	72529	9	
52	27537	99214	28323			72463	8	1
53 54		99212 99209	28391 28459	71609 71541	00788 00791		7	1
55	27754	99207	28527	71473	00793	72266	5	1
56	27799	99204	28595	71405	00796	72201	4	
57	27864	99202	28662	71338	00798	72136	3	
58	27930	99200	28730	71270	00800	72070	2	
59	27995	99197	28798	71202	00803	72005	6 5 4 3 2 1 0	
60	38060	99195	28865			71940	0	1
1	Co-sine.	Sine.	Co-tang	. Tang	Co-sec	/Secunt	/M	1
	-						-	3

		-						=-3	-
IM	1.1	Sine.	Co-sine.	Tang.	Co-tang.	Secant.	Co-sec.	12	
Rich	-92	9.28060	9.99195	9.28865	-		10.71940	60	
							Colored Control of Colored Co.		
100	123456	28125	99192	28933	71067	00808	71875	59	
100	2	28190	99190	29000	71000	00810	71810	58	
	3	28254	99187	29067	70933	00813	-71746	57	
100	4	28319	99185	29134	70866	00815	71681	56	
	5	28384		29201	70799	00818	71616	55	
100	6	28448	St. Color Carlot	29268			71552	54	
	7	28512		29335		30.000.000	71488	53	
	4								100
	8	28577	99175	29402			71423	52	
	9	28641	99172	29468	THE PARTY NAMED IN		71359	51	
No.	10	9.28705	9,99170	9.29535	10.70465	10.00830	10.71295	50	337
	11	28769		29601				49	
	10	28833		29668				48	
	12		THE RESERVE OF THE PARTY OF THE						
	13	28896		29734					
	14	28960		29800					
100	15	29024		29866	70134	00843	70975	45	
2	16	29087	99155	29939	70068	00845	70913	44	
	17	29150	99152	29998	70002	00848	70850	43	
	18	29214	The second second	30064					
100			1 4 St. At 1 St.	30130		W 2 2 2 2 2 2		41	
	19	29277	_						
	20	9.29340	9.99145				10.70660	40	
100	21	29403	99142	30261	69739	00858	70597	39	011
ш	22	29460		30326			70534		
100	23	29529							
Ш		2959							
Ю	24								
100	25	29654					The second second		
	26	29710		30587	6941:				
i.	27	2977							
1	28	2984	99124	30717	6928	00876	70159	32	
ı	29	2990.	99122	3078	6921	8 00878	70097	31	
11 -			1	-	The second second	1	The second	-	
NS.	30	9.2996					10.70034		
ш	31	3002							ī
ш	32	3009						28	
	33	-3015	1 99112	3104	6896	0 0088	69849	27	
AL .	34	3021	99109	3110	4 6889	6 0089	69787		100
ı	35	3027							
1		-3033							
ii.	36								10
1	37	3039							
II.	38	3045							
ш	39	3052	1 99096	3142	4 6857	5 0090	69479	21	ı
Ш	40	9.3058	2 9.99093	9.3148	9 10.6851	1 10.0090	10.69418	20	
	41	3064							n.
ŧ.			G 15-0-5-21						
-	42	3070							11
1	43	3076					6923	17	11
1	44	3082				7 0091			1
-	45	3088							H
H	46	3094	7 9907	8 3187	0 6813	0 0092	2 6905		11
I	47	3100							1
11	48	3106							18
1	49	3112	Control of the Contro				0 6887		1
1	_	-	-						H
I	50	9.3118	AND THE REAL PROPERTY.				3 10.6881		
	51	3124						0 9	18
1	52	3131	9906					0 8	19
1	53				6768				H
	54						4 6857		1
1	34							0 2	1
	55	3149						2	1
1	56	3154			08 6750	0094		1 4	R
M	57 58	3160						1 3	13
I	58	3160		6 3265	23 6737		6833	1 2	1
	55	3179	28 9904	3 326	673	15 0093	6827	2 1	1
I	60	317			17 672	52 0096		0 6 5 4 1 1 2 1 2 2 2	11
-	-	Co-sine	-	7		c. Co-se			1
1	111	Co-sine	e.   Sine.	Co-tan	2-1 rank	2. 100-86	c. / Secon	er la	Sil.
*		_					-	900	-

Artificial Sines, Tang. and Sec. 20 Degrees.

M.	Sine.	Co-sine.	Tang.	Co-tang.	Secant.	Co-sec.		ï
0	9.53405	9.97299	9.56107		10.02701		60	П
1	53440	97294	56140		02706	46560	59	ı
23	5.475	97389	56185	43815	02711	46525	58	ı
	53500	97285	56224		02715	46491	57	ı
5	5,545	97280	56264		02700 02704	46456 46422	56	ı
10	53578	97275	56303 56542			46383	55 54	ı
7	53647	97271 97266				46353	53	ı
8	53682	97262	56420		02737	46318	52	ı
9	53716	97257	5045	43541	02743	46284	51	ı
10	9.53751	9.97252		10.43502				Ł
11	53785	97248		43463		46215		۱
12	53819	97243			02757	46181		ı
13	53854	97238	56615	43385	02762	46146		ı
14	53888	97234	56654	43346	02766	46112	46	ı
15	53922	97229	56693			46078	45	ı
16	53957	97224		43268	02776	46043	44	ı
17	53991	97220	56771	43229	02780	46009	4.3	ı
18	54025	97215		43190	02785	45975	42	
19	54059	97210			02789	45941		
20	9.54093	9.97206		10.48113		10.45909	40	
21 22 23	54127	97201		43074	02799			1
22	54161 54195	97196 97192	56965 57004					
94	54229		57042	42958		45771		ı
24	54263	97182	57081		02818			ı
25	54297	97178			02822	45703		ı,
27	54331	97173	57158			45669	33	ı
28	54365	97168	57197				32	ı
29	54339	97163		42765			31	ı
30 31 32	9.54432	9.97149	9.57274	10.42726	10.02841	10.45567	30	ı
31	54466	97154						ı
32	54500	97149		42649				ı
33	54534			42611	02855			ı
34	54567	97140		42572	02860			п
35	54601	97135	57469					ı
37	54635 54668	97130 97126			02870 02874			ı
38	54702	97121						ı
39	54735	97110						ı
40	9.54769	9.97116		10.42342			Mark to the	ı
41	54802	97106						ı
42	54836		57734				18	
43	54869	97097	57772	42228	02903			
44	54803	97092	57810	42190	02908	45097	16	
4.5	54936	97087	57849			45064		1
46	54969	97083	57887	42113		45031		
47	55003	97078	57925	42075	02922	44997	13	1
48	55036	97073	57963		02927	44064	12	1
49	55069	97068	58001	Committee of the Committee of	The second second	The second second		1
50	9.55102	9.97063	9.58039	10.41961			10	
51 52	55136 55169	97059 97054	58077 58115	41923 41885				
53	55202	97034	58115		02946		7	1
54	55235	97044	58191	41809		44765	6	1
55	55268	97044 97039	58229	41771	02961	44732	5	1
56	55301	97034	58267	41733	02965	44699	4	1
57	55334	97030	58304	41696	02970	44666	3	
58	55367	97025	58342	41658	02975	44633		1
59	55400	97020	5838	0 4163			1	1
60	5543	of the party of the last of th		18 4158				1
1	Co-sine	. Sine.	Co-tar	ig. Tan	g.   Co-se	c.   Secu	nt. M	
-					Contract of the Contract of th	-		
1000			6	Degr	668			

M. Si	ne.   Co-	sine. Tang	g. [Co-tang	Secant.	Co-sec.	1	
Street, Square,		7015 9.584			10.44567	60	1
		7010 584			44534	59	
		7005 584			44501	58	
3 5		7001 585			44468	57	111
		6996 585 6991 586			0.000	56	1300
6 5		6991 586 6986 586				55	0
7 5		6981 586				54	
8 5		6976 587				52	
		6971 587				51	100
		6966 9.587		6 10.03034		50	
11 5		6962 588	The latest			49	100
	5826 9	6957 588	69 4113	1 03043		48	
13 5		6952 589				47	100
		6947 589				46	
		6942 589				45	9 .
		6937 590				44	
		6932 590 6927 590				43	100
		6922 591			43947	41	
of the Paris of Street, or other Designation of the Paris		Contract District	68 10.408		10.43914	40	1
		6912 592	The second second			39	200
22 5		6907 593				38	
		6903 599				37	
24 5	6215 9	6898 593	17 4068		43785	36	
		6893 593			43753	35	
26 5		6888 593			43721	34	7
		6883 594				33	
		6878 594 6873 595				32	
			and the last of th			31	
		6868 9.595 6863 595		0 10.03132		30	
31 5		6863 595 6858 596			43560 43528	29 28	100
33 5	6504 9	6853 596				27	0
		6848 596				26	
		6843 597				25	
		6838 597	62 4023			24	
		6833 597	99 4020			23	
		6828 598				22	
The same of	STREET, SQUARE, SQUARE,	6823 598		The second second		21	
			09 10.4009			20	
	.,	6813 599				19	17
		6808 599 6803 600				18	15 1
		6798 600				17	1
		6793 600				15	15
		6788 601		0 00212	43083	14	6
47 5	6949 9	6783 601	66 3983	4 03217	43051	13	170
48 5	6980 9	6778 602		7 03222	43020	12	17-
Married Street, or other Designation of the last of th	-	6772 603	the second		100000000000000000000000000000000000000	11	10
		6767 9.609				10	
		6762 603				9	1
	7107 9	6757 603				8	100
		6752 608				7	16
		6747 604 6742 604				5	170
		6737 604				1	3
57 5		6732 605					1
58 5	7295 9	6727 605				2	100
59 5	7326 9	6722 600		03279	8 4267		1
	The second of the second	6717 60	641 393			15/ 1	3/
Co-s	ine. Si	ne. Co-ta	ng Tar	g. Co-se	ec   Seca	11.10	4.

'n	-	_			-			3
n	M.	Sine.	Co-sine.	Tang.	Co-tang.	Secant.	Co-sec.	
II	0	9.38368	9.98690			10.01310	10.61632	60
II	1	38418	98687	39731	60269	01313	61582	59
N	2	38469 38519	98684 98681	39785 39838	60215 60162	01316 01319	61531	58 57
i	3	38570	98678	39892	60108	01322	61430	56
II	5	38620	98675	39945	60054	01325	61380	55
H	56	58670	98671	39999	60001	01329	61330	54
N	7	38721	98668	40052	59948	01332	61280	53
N	8	38771	98665	40106	59894	01335	61229	52
Ш		38821	98662	40152	59841	01338	61179	51
I	10	9.38871 38921	9.98659 98655	9.40212	10.59788 59734	01344	10.61129 61079	50 49
ì	12	38971		40319	59681	01348	61029	48
H	13	39021		40373	59628		60979	47
П	14	39071	98646	40425	59575	01354	60929	46
H	15	39121		40478	59522		60879	45
I	16	39170		40531	59469 59416			
H	17	39220		40584 40636	59363	01364	60780	43
ı	10	39319		40689	59311	01371		41
H	20	9.39369		9.40742		10.01373		40
П	21	39418		40795	59205		60582	10000
H	21 22 23	39467	98620	40847	59153	01380	60533	38
ı	23	39517		40900				
H	24	39566		40952				
ł	25 26	3961						
ı	20	39664		41057	58943 58891			
1	27 28	39769						
ı	29	3981		41214	58786			
ı	30	9.39860	9.98594	9.41266		10.01400	10.60140	30
ı	31	39909		41318			60091	29
ı	32	39957						
ı	33	4000						
K	34	40053		41474				
ı	36	AND DESCRIPTION OF THE PARTY OF			58422			of Hillshold St.
ı	37	40200						
ľ	38	40249	98568	41681	58319	01433		
ľ	39	4026	98565	41732	58267	0143	59703	21
ı	40		al allegate discharges				SALES DE LOS	
ı	41							19
	42							
1	43							
	45	THE RESERVE OF THE PERSON NAMED IN						
1	46							
	47				57850	0146	59318	13
	48		98535		and the second second			12
	45	Name and Address of the Owner, where the Owner, which is the Owner, where the Owner, which is the Owner, where the Owner, which is the Owner, which i		_				
1	50							
	51							
	5.	O						
1	5					0148		
	5.	4106	3 98517	4255	5744	0148		5
	56				and the second second			4
1	57				The second second			
1	58		5 98501 2 98498	The state of the s				
1	60	A COLOR		A STATE OF THE REAL PROPERTY.				
	-	Co-sine		Co-tans	1			
ß.	45	CO-SER	. I pine.	leo-cari	2./ rang.	1 co-sce	. r occant	/ML.

			( m	recorded a	1000	Table 1		2
M	STATISTICS.	Co-sine.		Co-tang.	-	Co-sec.	-	A
(		9.98494	9.42805	and the second second			60.	ı
1	41347	98495	42856			58655	59	ı
200	41394					58606	58	B
3	41441		42957			58559	57	H
3 6	41488		43007	56993		58512	56	ı
3	41535		43057	56943		58465	55	A.
			43108			58418	54	N
7			43158			58372	53	ı
8	The second second	98467	43208			58325	52	ı
_9	41722	98464	43258	56742	01536	58278	51	п
10	9.41768	9.98460	9.43308	10.56692	10.01540	10.58232	50	4
11	41815	98457	43358	56642	01543	58185	49	ı
12		98453	43408	56592	01547	58138	48	п
13	41908	98450	43458	56542	01550	58092	47	f
14	41954	98447	43508	56492	01553	58046	46	ı
15	42001	98443	43558	56442	01557	57999	45	ı
16		98440	43607	56393		57933	44	и
17	42093	98436	43657	56343	01564	57907	43	-
18		98433	43707	56293	01567	57860	42	1
19		98429	45750	56244	01571	57814	41	
20		9.98426	The same of the same of	10.56194	THE REAL PROPERTY.		40	1
21		98422	43855	56145	01578	57722	39	1
22		98419	43905	56095	01581	57676	38	1
23	42370	98415	43954	56046	01584	57630	37	1
24	42416	98412	44004	55996	01588	57584	36	п
25	42461	98409	44053	55947	01591	57538	35	п
26	42507	98405	44102	55898	01595	57493	34	1
27	42553	98402	44151	55848	01598	57447	33	а
28		98398	44201		01602		32	ı
29	42599	98395	44201	55799	01602	57401		u
	Personal Property lies, Spiriter, Sp	THE RESERVE OF	The latest test to the latest test test to the latest test test test test test test test	55750		57356	31	п
30	9.42690	9.98391	9.44299		10.01609		30	и
31	42735	98388	44348	55652	01612	57265	29	и
32	42781	98384	44397	55603	01616	57219	28	н
33	42826	98381	44446	55554	01619	57174	27	и
34	42872	98377	44495	55505	01623	57128	26	п
35	42916	98373	44544	55456	01626	57083	25	п
36	42962	98370	44592	55408	01630	57038	24	н
37	43057	98366	44641	55359	01634	56993	23	ı
38	43053	98363	44690	55310	01637	56947	22	ı
39	43098	98359	44738	55262	01641	56902	21	ı
40	9.43143	9.98356	9.44787		10.01644	10.56857	20	
41	43188	98352	44836	55164	01648	56812	19	
42	43233	98349	44884	55116	01651	56767	18	
43	43278	98345	44933	55067	01655	56722	17	1
44	43323	98342	44981	55019	01658	56677	16	
45	43367	98337	45029	54971	01662	56632	15	1
46	43412	98334	45078	54522	01666	56588	14	
47	43457	98331	45126	54874	01669	56543	13	1
48	43502	98327	45174	54826	01673	56498	12	
49	43546	98324	45222	54778	01679	56454	11	
50	9.43591	9.98320	Contract of the last		-	10.56409	7	
51	43635	98317	45319	54681	01683	56365	91	-
52	43680	98313	45367	54633	01687	56320	8	
53	43724	98309	45415	54585	01691	56276		
54	43769	98306	45463	54537	01694	56231	7	
55	43813	- 98302	45511	54489	01698	56187	5	
56	43851	98299	45550	54441	01701			
57	43907	98295	45606	54394		56143	4 3	
58	43946	98293	45654	54346	01705	56099	2	
59	43940	98291	45702	54298	01709	56054	2	
60	44034	98284	45750	54250		56010	0	
100	-		_		01716	55966	201	1
	Co-sine.	Sine.	Co-tang	Tang.	Co-sec.	Secunt.	122	1

134 Artificial Sines, Tang. and Sec. 24 Degrees.

Sec.			- TO -	D- 1	Count !	David Co	- 12	
ML	-	Co-sine.		Co-tang-		Co-sec.	_	
0	9,60931	9.96073				10.39069	60	
1	60960	96067	64892 64926	35108 35074	03933 03938	39040 39012	59 58	ı
2	60988	96062	64960	35040	03934	38984	Contract of	
3	61016 61045	96056 96050	64994	35006	03950	38955	57	
25456789	61073	96045	65028	34972	03955	38927	55	ı
8	61101	96039	65062	34938	03961	38899	54	ı
7	61129	96034	65096	34904	03966	38871	53	ı
8	61158	96028	65130	34870	03972	38842	52	ı
9	61186	96022	65164	34836	03978	38814	51	ı
10	9.61214	9.96017	9.65197	10.34803	10.03983	10 38786	50	ı
11	61242	96011	65231	34769	03989	38758		ı
12	61270	96005	65265	34735	03995	38730	48	ı
13	61293	95999	65299	34701	04000	38702	47	ı
14	61326	95994	65333	34667	04006			ı
15	61354	95988	65366		04012			ı
16	61382	95982	65400					ı
17	61411		65434					
18	61438		65467		04029		-	
19	61466	-	65501					I
20	9.61494	THE RESERVE OF THE PERSON NAMED IN		10.34466				
21 22	61522		65568		04046			
22	61550		65602		04052			1
23	61578		65636					1
24	61606		65669		04063 04069			
25	61634		65702		04009	The second secon	100,000	ı
26	61662		65736					ı
27	61689 61717		65776		04086			1
29	61745				04092			ı
	_			10.34130				1
30	9.61773							ı
31	61800 61828		65904		04103			ı
33	61856		65971		04115			ı
34	61883		66004		04121			ı
35	61911		66038		04127	38089		ı
36	61949		66071		04132	38061		ı
37	61966		66104		04138			И
38 39	61994	95856	66138	33862	04144	38000	22	1
39	62021	95850	66171	33829	04150	38979	21	ı
40	9.62049	9.95844	9.66204	10.33796	10.04156	10.37951	20	A
41	62076	The second second	66238	33762				
42	62108							
43	62131		66304	33696	04173	37869		
44	62159		66333					
45	62186				04185	37814	C Married Street, or other Persons and Per	I
46	62214							
47	62241		100000000000000000000000000000000000000			The second second		I
48	62268							
49	62296				The second second			
50	9 .62323			10.33463		of the latest and the		
51	62350					A VIII CONTRACTOR OF THE PARTY		
52	62377		66603				8	۱
53	62405				04231		7	
54	62432					37568	0	
55 56	62459 62486		66701				3	
57	62513						2	۱
58	62541					37459	5 4 3 2	I
59	62568					37439	i	I
60	6259		A THE NAME OF		3 043			2
-	-	-	-					Z.
1	Co-sine.	1 pure	100-00	9.	0			
			THE SHOW	Degre	200			

7	_							
n	M	Sine.	Co-sine.	Tang.	Co-tang.	Secant.	Co-sec,	1
N	0	9.64184	9.95366	9.68818	10.31182	10.04634	10.35816	60
N	1	64210	95360	68850	31150	04640	35790	59
ı	2	64236	95354	68882	31118	04646	35764	58
H	3 4	64262	95348	68914	31086	04652	35738	57
н		64288	95341	68946 68978	31054 31022	04659 04665	35712 35687	56 55
Н	6	64313 64339	95335 95329	69010		04671	35661	54
П	7	64365	95323	69042	30958	04677	35685	53
Ш	8	64391	95317	69074	30926	04683	35609	52
Ш	9	64417	95310	69106	30894	04690	35583	51
И	10	9.64442	9.95304	9.69138	10.30862	10.04696	10.35558	50
Ш	11	64468	95298	69170	30830	04702	35532	49
Н	12	64494	95292	69202		04708	35506	48
Н	13	64519	95286	69234		04714	35481	47
П	14	64545	95279	69266 69298	30734	04721	35455	46
1	16	64596	95273 95267	69329		04727 04733	35429 35404	45
Н	17	64622	95261	69361		04739	35378	43
И	18	54647	95254	69393		04746	35353	42
U	19	64673	95248	69425	30575	04752	35327	41
	20	9.64698	9.95242	9.69457		10.04758		40
	21	64724	95236	69488	30512	04764	35276	39
Ш	22	64749	95229	69520	30480	04771	35251	38
Ш	23	64775		69552		04777	35225	37
Ш	24	64800		69584		04783	35200	36
Ш	28	64826		69615		04789	35174	35
Ш	26	64851		69847 69679		04796 04802	35149	34
Н	28	64877 64902		69710		04808	35123 35098	30
Ш	29	64927	95185	69742		04815	35073	31
1	30	9.64953	9.95179	9.69774		-	10.35047	30
Ш	31	64978		69805		04827	35022	29
H	32	65003		69837	30163	04833	34997	28
11	33	65029	95160	69868		04840	34971	27
Ш	34	65054	95154	69900		04846	34946	26
н	35	65079	95148	69932		04852	34821	25
И	35	65104	95141	69963		04859	34896	24
H	38	65130 65155	95135 95129	69995 70026	30005 29974	04865	34870 34845	23
Ш	39	65180	95122	70058		04871 04878	34830	21
Ш	40	9.65205	9.95116	9.70089	-			20
I	41	65230	9,95110	70121	29879	10:04884 04890	10.34795 34770	19
I	42	65255	95103	70152	29848	04897	34745	18
	43	65281	95097	70184	29816	04903	34719	17
H	44	65306	95090	70215	29785	04910	34694	16
I	45	65331	95084	70247	29753	04916	34669	15
1	46	65356		70278		04922	34644	14
	47	65381	95071	70309	29691	04929	34619	13
N	48	65406 65431	95065 95059	70341 70372	29659 29628	04935	34594 34569	12
	50	9.65456	9.95052	9.70404		10.04948	_	10
i	51	65481	95046	70435	29565	04954	34519	
	52	65506	95039	70466	29534	04954	34494	9
-	53	65531	95033	70498		04967	34469	7
I	54	65556	95027	70529	29471	04973	34444	6
H	55	65580	95020	70560	29440	04980	34420	5
1	56	65605	95014	70592	29408	04986	34395	4
I	57	65630	95007	70623		04993	34370	3
1	58 59	65655 65680	95001 94994	70654 70685	29346 29315	04999	34345 34320	54321
	60	65705	94994	70085	29315	05005 05012	34295	o
	and the same	Co-sine.	Sine.	Co-lang	THE RESERVE OF THE PERSON NAMED IN	Co-sec.		M
	1 10	Co-sine.	onie.	loo-rang	Tang.	Co-sec.	Loscaur (	har.

6         67303         94553         72750         27250         05447         33697           7         67327         94540         72811         27189         05460         32653           8         67374         94543         72841         27159         05467         32625           10         9.67398         9.94526         9.72872         10.27128         10.05474         10.32602           11         67421         94519         72902         27098         05481         32575           12         67448         94513         72932         27068         05487         32555           13         67468         94506         72963         27037         05494         32533           14         67492         94499         73023         26977         05508         32483           15         67515         94492         73023         26916         05521         32431           16         67539         94452         73144         26886         05528         32441           19         67609         94465         73144         26886         05528         3241           19         67656         94451 <td< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th>_</th><th>_</th></td<>							_	_
1 67185 94587 72598 27402 05413 32815 32792 67208 94508 72628 27372 05420 32792		Co-sec. 1	Secant	Co-tang.	Tang.	Co-sine.	Sine.	ML
1	60					9,94593	9.67161	-0
3         67232         94573         72689         27311         05432         32768           5         67280         94560         72720         27280         05440         32726           6         67303         94550         72750         27250         05447         32697           7         67350         94540         72801         27220         05454         32673           8         67350         94540         72811         27189         05460         32656           10         9.67374         94543         72841         27159         05467         32623           11         67421         94519         72902         27098         05481         32575           12         67448         94513         72932         27068         05487         32535           13         67468         94506         72968         27037         05494         32535           13         67468         94506         72968         27037         05494         32535           14         67492         94499         73023         26977         05508         32481           15         67519         94499         73024	59	32815					67185	1
4         67286         94560         72720         27280         05440         32726           6         67303         94553         72750         27250         05447         32697           7         67327         94546         72780         27220         05454         32697           8         67350         94540         72811         27189         05460         32650           9         67374         94533         72841         27159         05467         32635           10         9.67398         9.94526         9.72872         10.27128         10.05474         10.32608           11         67421         94513         72932         27068         05481         32575           12         67468         94506         72963         27037         05494         32532           13         67468         94499         73023         26977         05508         32483           15         67515         94492         73023         26977         05508         32483           16         67539         94453         73144         26886         05521         32436           17         67562         94477	58 57	32792			72628			28.0
5         67380         94560         72720         27280         05440         32726           6         67337         94546         72780         27220         05454         32697           8         67350         94546         72811         27189         05460         32650           9         67374         94533         72841         27159         05467         32632           10         9.67398         9.94526         9.72872         10.27128         10.05474         10.32603           11         67421         94519         72902         27098         05481         32575           12         67445         94513         72932         27007         05504         32553           13         67468         94506         72968         27037         05494         32533           14         67492         94499         73993         27007         05508         32481           15         67515         94492         73023         26977         05508         32481           16         67523         94455         73144         26886         05521         32436           17         67562         94479 <td< td=""><td>55</td><td>32744</td><td></td><td></td><td>72689</td><td></td><td></td><td>4</td></td<>	55	32744			72689			4
7         67327         94546         72780         27220         05454         32636           9         67374         94533         72841         27189         05460         32636           10         9.67398         9.94536         72841         27128         10.05474         10.32605           11         67421         94519         72902         27098         05481         32575           12         67445         94513         72932         27068         05487         32555           13         67468         94506         72963         27037         05494         32532           14         67492         94499         72993         27007         05501         32561           15         67515         94499         72993         27007         05501         32481           17         67562         94479         73084         26916         05521         32431           17         67565         94447         73114         26886         05523         32431           19         67609         94465         73144         26866         05535         3239           20         9.67633         9.94458 <td< td=""><td>55</td><td>32720</td><td></td><td>27280</td><td></td><td></td><td></td><td>5</td></td<>	55	32720		27280				5
8	54	32697		27250	72750			6
9   67374   94535   72841   27159   05467   32623   10   9.67398   9.94526   9.72872   10.27128   10.05474   10.33605   12   67445   94513   72932   27098   05481   32575   12   67468   94506   72963   27037   05594   32533   14   67492   94499   72993   27007   05501   32506   15   67515   94492   73023   26977   05508   32463   17   67562   94479   73084   26946   05515   32463   17   67566   94472   73114   26886   05528   32414   19   67609   94465   73144   26856   05533   32393   20   9.67633   9.94458   9.73275   10.26825   10.05542   10.32365   22   67656   94441   73205   26795   05549   3234   22   67680   94448   73235   26765   05555   32329   24   67726   94431   73295   26705   05569   32274   27   67796   94410   73386   26614   05590   32294   27   67796   94410   73386   26614   05590   32294   28   67820   94404   73416   26584   05596   32187   32   67913   94376   73567   26493   05617   32114   32   67913   94376   73567   26493   05617   32114   32   67913   94376   73567   26493   05617   32114   32   67913   94376   73567   26493   05617   32114   32   67913   94376   73567   26493   05617   32114   32   67913   94376   73567   26493   05617   32114   32   67913   94376   73567   26493   05617   32114   32   67913   94376   73567   26493   05617   32114   32   67913   94376   73567   26493   05617   32114   32   67913   94376   73567   26493   05617   32114   32   67913   94376   73567   26493   05617   32114   32   67913   94376   73567   26493   05617   32114   32   67913   94376   73567   26493   05617   32114   32   67913   94376   73567   26493   05617   32114   32   67913   94376   73567   26493   05608   31944   32   68164   94307   73867   26133   05608   31944   31944   31944   31944   31944   31944   31944   31944   31944   31944   31944   31944   31944   31944   31944   31944   31944   31944   31944   31944   31944   31944   31944   31944   31944   31944   31944   31944   31944   31944   31944   31944   31944   31944   31944   31944   31944   31944   31944   31944   31944	53 52						67327	7
To	51						67374	0
11	50	_						
12	49	32579				94519	67421	11
14         67492         94499         72993         27007         05501         32508           15         67515         94492         73023         26977         05508         32481           16         67539         94485         73054         26946         05515         32461           17         67562         94472         73114         26886         05528         32414           19         67609         94465         73144         26856         05533         32391           20         9.67633         9.94458         9.73275         10.26825         10.05542         10.32365           21         67656         94451         73205         26795         05549         3234           22         67680         94438         73265         26735         05562         32297           23         67703         94438         73265         26735         05562         32297           24         67726         94431         73295         26705         05569         3227           25         67750         94424         73226         26674         05576         32250           26         67773         94410         <	48	32555					67445	12
15	47	32532						13
16	46 45							14
17	44							16
18		32438						17
20   9.67633   9.94458   9.73275   10.26825   10.05542   10.32365   21   67656   94451   73205   26795   0.5549   3234   22   67680   94445   73235   26765   0.5555   32326   23   67703   94438   73265   26735   0.5662   32297   24   67726   94431   73295   26705   0.5559   32274   25   67750   94424   73226   26674   0.5576   32256   26674   0.5576   32256   266775   0.5662   32297   27   67796   94410   73386   26614   0.5590   3226   266785   0.5662   32297   27   67796   94410   73386   26614   0.5590   3226   27   27   67796   94410   73386   26614   0.5590   32186   29   67843   94397   73446   26554   0.5603   32187   30   9.67866   9.94388   9.73476   10.36524   10.05610   10.3213   31   67890   94383   73507   26493   0.5617   32110   32   67913   94376   73557   26463   0.5624   3208   33   67936   94369   73557   26463   0.5631   3206   34   67959   94362   73597   26403   0.5638   3204   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266   3266	42	32414		26886	73114	94472	67586	18
22         67680         94445         73235         26765         05555         32329           23         67703         94438         73265         26735         05562         32297           24         67726         94431         73295         26705         05569         3227           25         677796         94417         73356         26644         05583         3222           26         67780         94404         73416         26584         05596         3218           29         67843         94397         73446         26584         05596         3218           31         67890         94383         9.73476         10.26524         10.05610         10.3213           31         67890         94383         73507         26493         05617         32110           32         67913         94376         73557         26433         05631         3206           34         67959         94362         73567         26433         05631         3206           35         67982         94342         73687         26343         05651         3199           36         68066         94349         73657<	41	-	-	The Part of the Pa			_	
22         67680         94445         73235         26765         05555         32329           23         67703         94438         73265         26735         05562         32297           24         67726         94431         73295         26705         05569         3227           25         677796         94417         73356         26644         05583         3222           26         67780         94404         73416         26584         05596         3218           29         67843         94397         73446         26584         05596         3218           31         67890         94383         9.73476         10.26524         10.05610         10.3213           31         67890         94383         73507         26493         05617         32110           32         67913         94376         73557         26433         05631         3206           34         67959         94362         73567         26433         05631         3206           35         67982         94342         73687         26343         05651         3199           36         68066         94349         73657<	40	10.32367						20
23   67703   94438   73265   26735   055662   32292     24   67726   94431   73295   26705   05569   32274     25   67750   94424   73226   26674   05576   32256     26   67773   94417   7336   26644   05593   32202     27   67796   94410   73386   26614   05590   32202     28   67820   94404   73416   26584   05596   32186     29   67843   94397   73446   26584   05596   32186     29   67843   94397   73446   26584   05603   32187     30   9.67866   9.94388   9.73476   10.26524   10.05610   10.32134     31   67890   94383   73507   26493   05617   32116     32   67913   94376   73537   26463   05624   32087     33   67936   94369   73567   26433   05631   32064     34   67959   94362   73597   26403   05638   32047     35   67982   94335   73627   26373   05645   32018     36   68006   94349   73657   26343   05651   31997     37   68029   94342   73687   26313   05668   3197     39   68075   94332   9.73777   10.26223   10.05679   10.3190     40   9.68068   9.94321   9.73777   10.26223   10.05679   10.3190     41   68121   94314   73807   26193   05686   3187     42   68144   94307   73837   26163   05693   3185     43   68167   94300   73867   26133   05707   3181     44   68190   94293   73897   26013   05707   3181     45   68213   94286   73927   26073   05714   3176     46   68537   94279   73957   26043   05727   3176     47   68260   94273   73987   26013   05707   3181     48   68282   94266   74017   25983   05734   3176     49   68305   94259   74047   25953   05741   3169     50   9.68328   9.94252   9.74077   10.25923   10.05748   10.3167     50   9.68328   9.94252   9.74077   10.25923   10.05748   10.3167     50   9.68328   9.94252   9.74077   10.25923   10.05748   10.3167     50   9.68328   9.94252   9.74077   10.25923   10.05748   10.3167     50   9.68328   9.94252   9.74077   10.25923   10.05748   10.3167     50   9.68328   9.94255   9.74077   10.25923   10.05748   10.3167     50   9.68328   9.94255   9.74077   10.25923   10.05748   10.3167     50   9.68328   9.94255   9.74077   10.25923   1	39 38				73205			21
24         67726         94431         73295         26705         05569         32274           25         67750         94424         73226         26674         05576         322576           26         67773         94417         73356         26644         05583         32221           27         67796         94410         73366         26614         05590         3220           28         67820         94404         73416         26584         05596         3218           29         67843         94397         73446         26554         05603         3215           30         9.67866         994388         9.73476         10.26524         10.05610         10.3213           31         67890         94383         73507         26493         05617         32116           32         67913         94376         73537         26463         05624         3208           33         67936         94369         73567         26433         05631         3206           34         67959         94362         73597         26403         05638         32013           36         68006         94349         7	37				73265			
26         67773         94417         73356         26644         05583         3222           28         67820         94404         73416         26584         05596         3218           29         67843         94397         73446         26584         05596         3218           31         67890         94383         73507         26493         05617         3211           32         67913         94376         73537         26463         05624         3208           33         67936         94369         73567         26433         05631         3206           34         67959         94362         73597         26403         05638         3204           35         67982         94355         73627         26373         05645         32018           36         68006         94349         73657         26343         05651         3199           37         68029         94342         73687         26313         05658         3197           38         68052         94335         73717         26283         05651         3199           39         68075         94329         73777         <	36	32274						24
29   67843   94397   73446   26554   0.5603   3215;     30   9.67866   9.94388   9.73476   10.26524   10.05610   10.3213;     31   67890   94383   73507   26493   0.5617   32110;     32   67913   94376   75537   26463   0.5624   3206;     33   67936   94369   73567   26433   0.5631   3206;     34   67959   94362   73597   26403   0.5638   3204;     35   67982   94355   73627   26373   0.5645   32018;     36   68006   94349   73657   26343   0.5651   3199;     37   68029   94342   73687   26313   0.5658   3197;     38   68052   94335   73717   26283   0.5665   3194;     39   68075   94329   73747   26253   0.5672   3192;     40   9.68068   9.94321   9.73777   10.26223   10.05679   10.3190;     41   68121   94314   73807   26193   0.5686   3187;     42   68144   94307   73837   26163   0.5693   3185;     43   68167   94300   73867   26133   0.5700   3183;     44   68190   94293   73897   26103   0.5707   3181;     45   68213   94286   73927   26073   0.5714   3176;     46   68237   94279   73957   26043   0.5721   3176;     47   68260   94273   73987   26013   0.5727   3174;     48   68282   94266   74017   25983   0.5734   3171;     49   68305   94259   9.74077   10.25923   10.05748   10.3167;     50   9.68328   9.94252   9.74077   10.25923   10.05748   10.3167;     50   9.68328   9.94252   9.74077   10.25923   10.05748   10.3167;     51   68351   94245   74107   25983   05755   31646   10.3167;     51   68351   94245   74107   25983   05755   31646   10.3167;     52   9.68328   9.94252   9.74077   10.25923   10.05748   10.3167;     52   9.68328   9.94252   9.74077   10.25923   10.05748   10.3167;     53   9.68328   9.94252   9.74077   10.25923   10.05748   10.3167;     54   68351   94245   74107   25883   05755   31646   10.3167;     55   9.68328   9.94252   9.74077   10.25923   10.05748   10.3167;     54   68351   94245   74107   25883   05755   31646   10.3167;     55   9.68328   9.94252   9.74077   10.25923   10.05748   10.3167;     55   9.68328   9.94252   9.74077   10.25923   10.05748   10.3167;     55	35	32250	05576	26674	73226	94424	67750	25
29   67843   94397   73446   26554   0.5603   3215;     30   9.67866   9.94388   9.73476   10.26524   10.05610   10.3213;     31   67890   94383   73507   26493   0.5617   32110;     32   67913   94376   75537   26463   0.5624   3206;     33   67936   94369   73567   26433   0.5631   3206;     34   67959   94362   73597   26403   0.5638   3204;     35   67982   94355   73627   26373   0.5645   32018;     36   68006   94349   73657   26343   0.5651   3199;     37   68029   94342   73687   26313   0.5658   3197;     38   68052   94335   73717   26283   0.5665   3194;     39   68075   94329   73747   26253   0.5672   3192;     40   9.68068   9.94321   9.73777   10.26223   10.05679   10.3190;     41   68121   94314   73807   26193   0.5686   3187;     42   68144   94307   73837   26163   0.5693   3185;     43   68167   94300   73867   26133   0.5700   3183;     44   68190   94293   73897   26103   0.5707   3181;     45   68213   94286   73927   26073   0.5714   3176;     46   68237   94279   73957   26043   0.5721   3176;     47   68260   94273   73987   26013   0.5727   3174;     48   68282   94266   74017   25983   0.5734   3171;     49   68305   94259   9.74077   10.25923   10.05748   10.3167;     50   9.68328   9.94252   9.74077   10.25923   10.05748   10.3167;     50   9.68328   9.94252   9.74077   10.25923   10.05748   10.3167;     51   68351   94245   74107   25983   05755   31646   10.3167;     51   68351   94245   74107   25983   05755   31646   10.3167;     52   9.68328   9.94252   9.74077   10.25923   10.05748   10.3167;     52   9.68328   9.94252   9.74077   10.25923   10.05748   10.3167;     53   9.68328   9.94252   9.74077   10.25923   10.05748   10.3167;     54   68351   94245   74107   25883   05755   31646   10.3167;     55   9.68328   9.94252   9.74077   10.25923   10.05748   10.3167;     54   68351   94245   74107   25883   05755   31646   10.3167;     55   9.68328   9.94252   9.74077   10.25923   10.05748   10.3167;     55   9.68328   9.94252   9.74077   10.25923   10.05748   10.3167;     55	34	32227		26644	73356			26
29   67843   94397   73446   26554   0.5603   3215;     30   9.67866   9.94388   9.73476   10.26524   10.05610   10.3213;     31   67890   94383   73507   26493   0.5617   32110;     32   67913   94376   75537   26463   0.5624   3206;     33   67936   94369   73567   26433   0.5631   3206;     34   67959   94362   73597   26403   0.5638   3204;     35   67982   94355   73627   26373   0.5645   32018;     36   68006   94349   73657   26343   0.5651   3199;     37   68029   94342   73687   26313   0.5658   3197;     38   68052   94335   73717   26283   0.5665   3194;     39   68075   94329   73747   26253   0.5672   3192;     40   9.68068   9.94321   9.73777   10.26223   10.05679   10.3190;     41   68121   94314   73807   26193   0.5686   3187;     42   68144   94307   73837   26163   0.5693   3185;     43   68167   94300   73867   26133   0.5700   3183;     44   68190   94293   73897   26103   0.5707   3181;     45   68213   94286   73927   26073   0.5714   3176;     46   68237   94279   73957   26043   0.5721   3176;     47   68260   94273   73987   26013   0.5727   3174;     48   68282   94266   74017   25983   0.5734   3171;     49   68305   94259   9.74077   10.25923   10.05748   10.3167;     50   9.68328   9.94252   9.74077   10.25923   10.05748   10.3167;     50   9.68328   9.94252   9.74077   10.25923   10.05748   10.3167;     51   68351   94245   74107   25983   05755   31646   10.3167;     51   68351   94245   74107   25983   05755   31646   10.3167;     52   9.68328   9.94252   9.74077   10.25923   10.05748   10.3167;     52   9.68328   9.94252   9.74077   10.25923   10.05748   10.3167;     53   9.68328   9.94252   9.74077   10.25923   10.05748   10.3167;     54   68351   94245   74107   25883   05755   31646   10.3167;     55   9.68328   9.94252   9.74077   10.25923   10.05748   10.3167;     54   68351   94245   74107   25883   05755   31646   10.3167;     55   9.68328   9.94252   9.74077   10.25923   10.05748   10.3167;     55   9.68328   9.94252   9.74077   10.25923   10.05748   10.3167;     55	33	20190				94410	67790	27
30 9.67866 9.94388 9.73476 10.36524 10.05610 10.3213. 31 67890 94383 78507 26493 05617 32110. 32 67913 94376 75537 26463 05624 3208. 33 67936 94369 73567 26433 05631 3206. 34 67959 94362 73597 26403 05638 3204. 35 67982 94355 73627 26373 05645 32018. 36 68006 94349 73657 26343 05651 3199. 37 68029 94342 73687 26313 05658 3197. 38 68052 94335 73717 26283 05665 3194. 39 68075 94329 73747 26253 05672 3192. 40 9,68068 9.94321 9.73777 10.26223 10.05679 10.3190. 41 68121 94314 73807 26193 05686 3187. 42 68144 94307 73837 26163 05693 3185. 43 68167 94300 73867 26133 05700 3183. 44 68190 94293 73897 26103 05707 31810. 45 68213 94286 73927 26073 05714 3178. 46 68237 94279 73957 26043 05721 3176. 47 68260 94273 73987 26013 05702 3181. 48 68283 94266 74017 25983 05734 3171. 49 68305 94259 774047 25983 05734 3171. 50 9.68328 9.94252 9.74077 10.25923 10.05748 10.3167. 51 68331 94245 74107 25983 05755 31644.						94397		29
31         67890         94383         73507         26493         05617         3218           32         67913         94376         73557         26463         05624         3208           33         67936         94369         73567         26433         05631         3206           34         67959         94362         73597         26403         05638         3204           35         67982         94355         73627         26373         05645         32018           36         68006         94349         73657         26343         05651         3199           37         68029         94322         73687         26313         05668         3197           38         68052         94335         73717         26283         05665         3194           39         68075         94329         73747         26253         05672         3192           40         9,68068         9,94321         9,73777         10.26223         10.05679         10.3190           41         68121         94314         73807         26193         05686         3187           42         68144         94307         73867		The second second						30
32         67913         94376         73537         26463         05624         3208           33         67936         94369         73567         26433         05631         3206           34         67959         94362         73597         26403         05638         3204           35         67982         94349         73657         26373         05645         3201           36         68006         94349         73657         26343         05651         3199           38         68052         94335         73717         26283         05665         3194           39         68075         94329         73747         26283         05665         3194           40         9,68068         9,94321         9,73777         10,26223         10,05679         10,3190           41         68121         94314         73807         26193         05686         3187           42         68144         94307         73837         26163         05693         3183           43         68167         94300         73867         26133         05700         3183           45         68213         94286         73927<		32110						31
34         67959         94362         73597         26403         05638         3204:           35         67982         94355         73627         26373         05645         3201:           36         68006         94349         73657         26343         05651         3199           37         68029         94342         73687         26313         05658         3197           38         68052         94329         73747         26283         05655         3194           39         68075         94329         73747         26253         05672         3192           40         9,68068         9,94321         9,73777         10.26223         10.05679         10.3190           41         68121         94314         73807         26193         05686         3187           43         68167         94300         73867         26133         05609         3185           44         68190         94293         73897         26103         05707         3181           45         68213         94286         73927         26043         05721         3176           47         68260         94273         7398	28	-32087	05624	26463	73537	94376	67913	32
35   67982   94355   73627   26373   05645   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018   32018		32064						33
36			05644	20403				34
37   68029   94342   73687   26313   05658   3197     38   68052   94335   73717   26283   05665   3194     39   68075   94329   73747   26253   05672   3192     40   9,68068   9,94321   9,73777   10,26223   10,05679   10,8190     41   68121   94314   73807   26193   05686   3187     42   68144   94307   73837   26163   05693   3185     43   68167   94300   73867   26133   05700   3183     44   68190   94293   73897   26103   05707   3181     45   68213   94286   73927   26073   05714   3178     46   68237   94279   73957   26043   05721   3176     47   68260   94273   73987   26013   05727   3174     48   68282   94266   74017   25983   05734   3171     49   68305   94259   9,74077   10,25923   10,05748   10,3167     50   9,68328   9,94252   9,74077   10,25923   10,05748   10,3167     51   68331   94245   74107   25893   05755   31648     51   68331   94245   74107   25893   05755   31648     52   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   74077   7407			05651	26343				36
39   68075   94329   73747   26253   05672   31923   31924   31924   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925   31925								37
40         9,68068         9,94321         9,73777         10.26223         10.05679         10.3190           41         68121         94314         73807         26193         05686         3187           42         68144         94307         73837         26163         05693         3185           43         68167         94300         73867         26133         05700         3183           44         68190         94293         73897         26103         05707         3181           45         68213         94286         73927         26073         05714         3178           46         68237         94279         73957         26043         05721         3174           48         68280         94263         74017         25983         05734         3171           49         68305         94259         74047         25933         05741         3169           50         9.68328         9.94252         9.74077         10.25923         10.05748         10.3167:           51         68331         94245         74107         25883         05755         3164		31948	05665			94335	68052	38
41         68121         94314         73807         26193         05686         3187           42         68144         94307         73837         26163         05693         3183           43         68167         94300         73867         26133         05700         3183           44         68190         94293         73897         26103         05707         3181           45         68213         94286         73927         26073         05714         3176           46         68537         94279         73957         26043         05721         3176           47         68260         94273         73987         26013         05727         3174           48         68282         94266         74017         25983         05734         3171           49         68305         94259         74047         25953         05741         3169           50         9.68328         9.94252         9.74077         10.25923         10.05748         10.3167           51         68351         94245         74107         25893         05755         31649		The second second		The second second	-			
43         68144         94307         73837         26163         05693         3185           43         68167         94300         73867         26133         05700         3183           44         68190         94293         73897         26103         05707         31810           45         68213         94286         73927         26073         05714         3178           46         68237         94279         73957         26043         05721         3176           47         68260         94273         73987         26013         05727         3174           48         68282         94266         74017         25983         05734         3171           49         68305         94259         74047         25953         05741         3169           50         9.68328         9.94252         9.74077         10.25923         10.05748         10.3167           51         68351         94245         74107         25893         05755         3164								
43     68167     94300     73867     26133     05700     3183       44     68190     94293     73897     26103     05707     3181       45     68213     94286     73927     26073     05714     3178       46     68237     94279     73957     26043     05721     3176       47     68260     94273     73987     26013     05727     3174       48     68282     94266     74017     25983     05734     3171       49     68305     94259     74047     25953     05741     3169       50     9.68328     9.94252     9.74077     10.25923     10.05748     10.3167       51     68331     94245     74107     25893     05755     3164								
44         68190         94293         73897         26103         05707         31810           45         68213         94286         73927         26073         05714         3178           46         68237         94279         73957         26043         05721         3176           47         68260         94273         73987         26013         05727         3174           48         68282         94266         74017         25983         05734         3171           49         68305         94259         74047         25953         05741         3169           50         9.68328         9.94252         9.74077         10.25923         10.05748         10.3167           51         68331         94245         74107         25893         05755         3164		31833	05700	26133				
46         68237         94279         73957         26043         05721         31763           47         68260         94273         73987         26013         05727         31744           48         68282         94266         74017         25983         05734         3171           49         68305         94259         74047         25953         05741         3169           50         9.68328         9.94252         9.74077         10.25923         10.05748         10.3167           51         68351         94245         74107         25893         05755         31649	16	31810	05707	26103	73897	94293	68190	44
47         68260         94273         73987         26013         05727         31744           48         68282         94266         74017         25983         05734         3171           49         68305         94259         74047         25953         05741         3169           50         9.68328         9.94252         9.74077         10.25923         10.05748         10.31673           51         68331         94245         74107         25893         05755         31649		31787	05714	26073	73927			
48 68282 94266 74017 25983 05734 31710 49 68305 94259 74047 25953 05741 31690 50 9.68328 9.94252 9.74077 10.25923 10.05748 10.31673 51 68331 94245 74107 25893 05755 31640		31763	05721					
49 68305 94259 74047 25953 05741 3169 50 9.68328 9.94252 9.74077 10.25923 10.05748 10.31673 51 68331 94245 74107 25893 05755 31649			05727	The second second				
50 9.68328 9.94252 9.74077 10.25923 10.05748 10.31673 51 68331 94245 74107 25893 05755 3164		31695						
51 68351 94245 74107 25893 05755 3164		10.31672	10.05748	10.25923	Contract of the last		-	1
		31649	05755	25893			68351	
	8			25863	74137	94238	68374	52
53 68397 94231 74166 25833 05769 3160	1 2		05769	25833	74166		68397	53
54 68420 94224 74196 35803 05776 31580 55 68543 94217 74226 25774 05783 31557	5						68549	55
56 68466 94210 74256 25744 05790 31534	4	31534					68466	56
57 68489 94203 74286 25714 05797 31511	3	31511	05797			94203	68489	57
58 68511 94196 74316 25684 05804 31486	2	31488				94196	68511	58
		31466 31443						
The second secon						1	The second second	-00
	-/mr	( secunt.	1 cosec	I rank	leo-unia	d amer	Co-sme	

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M.	Sine.	Co-sine.	Tang.	Co-tang	Secant.	Co-sec. 1		п
200	The second second	September 19 and	-				_	
0	9.68557	9.94182	9,74375	10.25625	10.05818	10.31443	60	
2 3	68580	94175	74405	25595	05825	31420	59	
2	68603	94168	74435	25565	05832	31397	58	
3	68625	94161	74465	25535	05839	31375	57	
4	68648	94154	74495	25506	05846	31352	56	
5	68671	94147	74524	25476	05853	31329	55	
E	68694	94140	74554	25446	05860	31306		
45678							54	
100	68716	94133	74583	25417	05867	31384	53	
	68739	94126	74613	25387	05874	31261	52	
9	68762	94110	74633	25357	05881	31238	51	D)
10	9,68784	9,94112	9.74673	10.25327	10.05888	10 31916	50	
11	68807	94105	74702	25298				
30	68829				05895	31193	49	
12 13	-	94098	74732	25268	05902	31170	48	ı
13	68832	94090	74762	25238	05910	31148	47	1
14	68875	94083	74791	25209	05917	31125	46	
15	68894	94076	74821	25179	05924	31103	45	N.
16	68920	94069	74851	25149	05931	31080	44	
17	68942	94062	74880	25120	05938	31058	43	
18	68965	94055	74910	25090	05945	31035	42	M
10						The second second		
19	68987	94048	74936	25061	05952	31013	41	
20 21 22	9.69010	9.94041	9.74969	10.25031	10.05959	10.30990	40	i
21	69032	94034	74998	25002	05966	30968	39	Ł
99	69055	94027	75028	24972	05973	30945	38	
12.5	69077	94020	75058	24942	05980		37	
20						30923		
24	69100	94012	75087	24913	05988	30900	36	
24 25 26	69122	94005	75117	24883	05995	30878	35	
26	69144	93998	75146	24854	06002	30856	34	
27	69167	93991	75176	24824	06009	30833	33	8
28 29	69189	93984	75205	24795	06016	30811	32	ш
29	69212	93977	75235	24765	06013	30788	31	
200	March Street, or other Parks		-					ı
30	9,69234	9.93970	9.75264			10.30766	30	81
31	69256	93963	75294	24706	06037	30744	29	
32 33 34	69279	93955	75323	24677	06045	30721	28	
33	69301	93948		24647	06052	30699	27	
. 34	69323	93941	75382	24618	06059	30577	26	A.
35	69345	93934	75411	24588	06066	30655	25	м
36	69368	93927	75441	24559			24	a
37					06073	30632		4
3/	69390	93919	75470	24530	06080	30610	23	
38	69412	93912	75500	24500	06088	30688	22	
39	69434	93905	75529	24471	06095	30666	21	1
40	9.69456	9,93898	9.75558	10.24441	10.06102	10.30544	20	1
41	69479	93891	75588	24412	06109	30521	19	
42	69501	93884	75617	24383	06116	30499	18	
43	69523	93876	75647	24353				1
					06124	30477	17	1
44	69545	93869	75676	24324	06131	30455	16	
45	69567	93862	75705	24295	06138	30433	15	1
46	69589	93855	75735	24265	06145	30411	14	1
47	69611	93847	75764	24236	06153	30389	13	1
48	69633	93840	75793	24207	06160	30367	12	1
49	69655	93833	75822	24178	06167	30345	11	1
50	9.69677				10.06174		10	1
		9.93826	9.75852	10.24148	The state of the s			-
51	69699	93819	75881	24119	06181	30301	9	
52	69721	93811	75910	24090	06189	30279	8	
53	69743	93804	75939	24060	06196	30256	7	
54	69765	93717	75969	24031	06203	30235		I
55	69787	93789	75998		06210		5	1
56	69809	93782	76027		06218	30191	1 1	1
57	69831	93775	76056	23944	96225	30169	0	
3/	60021	937/3					3	1
56	69853	93768	76086		06232	30147	5 4 3 2 1	1
57 58 59 60	69874	93760	76115	23885	06240	30125	1	
60	69897	93753	76144	23856	06247	30103	0	-
1	Co-sine.	Sine.	Co-tang	Tang.	Co-sec.	Secont.	M	1
1	- Culto	Calle.	- coming	a range.	, au seu.	10-00-0		

Ü	200	10000		- 0					ě
Œ	ML	Sine.	Co-sine.	-	Co-tang.		Co-sec.	_1	ı
ı	0	9.69897	9.93752		10.23856		10.30003	60	ı
	1	69919	93746	76173	23827	06.54	30081	59	ı
	2	69941 69963	93738 93731	76202 76231	23798 23769	06269	30039	57	ı
ı	4	69984	93724	76261	23739	06276	30016	56	١
	5	70006	93717	76290	23710	06283	29994	55	ı
	6	70028	93709	76319	23681	06291	29972	54	ı
	7	70050	93702	76348	23652	06298 06305	29950 29928	53	ı
ı	8	70072	93695 93687	76377 76406	23623 23594	06313	29920	51	ı
ŀ	10	9.70115	9.93680		10.23565	10.06320	10.29885	50	ı
	11	70137	93673	76464	23536	06327	29864	49	ı
١	12	70159	93665	76493	23507	06335	29841	48	ı
ŀ	13	70180	93658	76522	23478	06342	29820	47	ı
П	14	70202	93650	76551	23449	06350	29798	46	ı
1	15	70224 70245	93643 93636	76580 76609			29776 29755	45	l
ı	17	70267	93628					43	ı
	18	70288						42	1
ı	19	70310	93614	76697	23303	06386		41	ı
ı	20	9,70332		I Black Cold Street			10.29668		ı
ı	21	4 70353						39	ı
ı	22	70375		The second second				1	ı
ı	23	70396 70418		-	A STATE OF THE PARTY OF				A
ı	35	70439			The second second				ı
П	26	70461	A CONTRACTOR OF THE PARTY OF TH	The second second					ı
ı	27	7048		The second second			To the second second		ï
ı	28	70504			4				ı
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ı	30	9.79547		of Other Laboratory			10.29453 29433		
i	32				of STREET, and address.				h
ı	33		of the latest state of the						
i	34			C IIII A A A A COLOR					i
I	35					0.000			
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ı	35								ı
l	40			9.7730	3 10,22697			20	
i	41	7078	9345	7733	2 2266		2921	19	
	42			2 7736	1 2263				
1	43					MI THE RESIDENCE			1
	44								
	46								
Ш	47	7090		5 7750		5 0659	5 2909	200	
I	48								
	49		4	The second second		-		4	
1	50						8 10.2902	а шы	
	51				9 2238 8 2235				
	5								
	54	7105	8 9335	2 77,70	5 2229	4 0664		2 6	
	5			4 7773	4 2226	6 0665	6 2892	5	
I	50							9	3
N	57					The second second		2	
	59								
H	6			7787	7 2212		3 2881		
		Co-sine	E. Sine						
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Co-tang-

Tang.

Co-sec.

Secant

Sine.

13	Artifici	al Sines	, Tang.	and Se	c. 32 D	egrees.	-
M.	Sine.	Co-sine.	Tang.	Co-tang.	Secant.	Co-sec.	
-0	9,72421	9.92842	9.79579	10.20421	10.07158	10.27579	60
1	72441	92834	79607	20393	07166	27559	59
20	72461 72482	92826 92818	79635 79663	20365	07174 07182	27539 27518	58
4	72502	92810	79691	20309	07190	27498	56
5 6	72522	92803	79719	20281	07197	27478	55
6	72542	92795	79747	20253	07205	27458	54
7 8	72562 72582	92787	79776 79804	20224 20196	07213 07221	27438 27418	53
9	72602	92779 92771	79832	20168	07229	27398	51
10	9.72622	9.92763			10.07237	10.27378	50
11	72643	92755	79888	20112	07243	27357	49
12	72663	92747	79916	20084	07253	27337	48
13		92739	79944	20056	07261	27317	47
14	72703	92731	79972 80000	20028	07269	27297 27277	45
16	72723 72743	92723 92715	80028	19972	07285	27257	44
17	72763	92707	80056	19944	07293	27237	43
18	72783	92699	80084		07301	27217	42
19			80112	19888		27197	41
20	9.72823	9.92683				10.27177	40
21 22 23	72843 72863		80168 80195	19832 19805	07325 07333	27157 27137	39
23	72883		80223		07341	27117	37
24	72902		80251	19749			36
25	72922						
26 27	72942			19693			
28	72962		80335 80363	19665 19637			
29	73002						
30						10.26978	30
31		92595		19553	07405	26959	29
32	73061		80474				
33	73081 73101	92579 92571	80502 80530				27
34	73121						
36	73140			19414	07445		
37	73160	92546		19386	07454	26840	23
38	73180	92538					
39		92530					
40		9.92522				10.26781	
43		92514					
43	73278	92498		19219	07502	26722	
44	73298	92490	80808	19192	07510	26702	16
44		92482					
47							
48					07548		
45			80947	19053	07551	26604	11
50	9.73416	9.92441	9.80975	10.19025	10.07559	10.26584	10
51	73435	92433	81003	18997	07567	26565	
50	73455	92425	81030	18970	07575	26546	8
53	73474				U/ 304		1 6
55	73513	92400				26487	5
56	73533	92392			07608		4
57	73552			18831	07616	26448	3
58					07624	26428	2
59						26409 26389	
-00	Co-sine		Co-tany				
316	Poo-aluc	. J Sine.	(Co-call)	od rank	1 00-00	Jocann	
				Deores	B		

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M.	Sine.	Co-sine.	Tang-	Co-tang.	Secant.	Co-sec.		i
-0	9.73611	9.92359	9.81252	10.18748	10.07541	10.26389	60	ı
ĭ	73630	92351	81279	18721	07649	26370	59	и
9	73650	92343	81307	18693	07657	26350	58	н
2345678	73669	92334	81335	18665	07666	26331	57	ı.
4	73689	92326	81362	18638	07674	26311	56	н
5	73708	92318	81390	18610	07682	26292	55	и
6	73797	92310	81417	18582	07690	26273	54	ı
7	73747	92302	81445	18555	07698	26253	53	п
8	73766	92293	81473	18527	07707	26234	52	а
9	73785	92285	81500	18500	07715	26215	51	П
10	9.73805	0 09977	9.81528	_	10.07723	10.26195	50	ı
11	73824	92269	81556	18444	07731	26176	49	ı
10	73843	92260	81583	18417	07740	26157	48	1
12 13	73863	92252	81611	18389	07748	26137	47	ı
14	73882	92244	81638	18362	07756	26118	46	ı
15	73901	92235	81666	18334	1 07765	26099	45	н
16	73921	92227	81693	18307	07773	26079	44	ı
17	73940	92219	81721	18279	07781	26060	43	ı
18	73959	92211	81748	18252	07789	26041	42	а
19	73978	92202	81776	18224	07798	26022	41	ı
-	_	9.92194	9.81803	10.18197	10.07806	A STATE OF THE PARTY OF THE PAR	40	1
20	9.73997	The state of the late of the l	THE R. LEWIS CO., LANSING, MICH.			Industrial Colleges		ı
21	74017 74036	92186 92177	81831 81858	18169 18142	07814	25983	39	1
22				2000	07823	25964		۱
23	64055	92169 92161	81886 81913	18114 18087	07831 07839	25945 25926	37	ı
25	74074	92152	81941	18059	07848	25920	35	ı
	74093	92132	81968	18039	07856	25887		п
26	74112	92136	81996	18004	07864	100 000 000	34	1
27	74132 74151	92127	82023	17977	07873	25868 25849	32	н
28	100000	92119	82051		The second second second	25830	31	п
29	74170	THE RESERVE AND ADDRESS.	Married Street	17949	07881	Mark Control of the C		ı
30 31 32	9.74189	9.92111	9.82078	10.17922	10.07889	10.25811	30	н
31	74208	92102	82106	17894	07898	25792	29	ı
32	74227	92094	82133	17867	07906	25773	28	ı
33	74246	92086	82161	17839	07914	25754	27	ı
34	74265	92077	83188	17812	07923	25735	26	н
35 36	74284	92069	82215	17784	07931	25716	25	п
36	74303	92060	82243	17757	07940	25697	24	ı
37	74322	-92052	82270	17730	07948	25678	23	и
38	74341	92044	82298	17702	07956	25659	22	п
39	74360	92035	82325	17675	07965	25640	21	ı
40	9.74379	9.92027	9.82352	10.17648	March Control	10.25621	20	1
41	74398	92018	82380	17.620	07982	25602	19	
42	74417	92010	82407	17593	07990	25583	18	
43	74436	92002	82434	17565	07998	25564	17	1
44	74455	91993	82462	17538	08007	25545	16	
45	74474	91985	82489	17511	08015	25526	15	
46	74593	91976	82517	17483	08024	25507	14	
47	74512	91968	82544	17456	08035	25488	13	1
48	74531	91959	82571	17429	08041	25469	12	1
49	74549	91951	82599	17401	08049	254.51	11	1
50	9.74568	9.91942	9.82626	10.17374	10.08058	10.25432	10	1
51	74587	91934	82653	17347	08066	25413	9	1
52	74606	91925	82681	17319	08075	25394	8	
	74625	91917	82708		08083	25375	7	
53 54	74625	91917		17292	08092	25375 25356	6	1
55	74662	91890	82762	17238	08100	25338	5	
56	74681	91881	82790 82817	17210	08109	25319	4	
57	74700 74719	91883	82817	17183	08117	25300	3	
58	74719		82844	17156	08126	25281	2	
55 56 57 58 59 60	74737	91866	82871	17129	.08134 08143	25263		
		91857	82899	17101	08143	252AA	0	1
YES	Co-sine.	Sine.	Co-tang.	Tang.	Co-sec.		M	3
9		Total Control	0		A PROPERTY.	EL DECEMBER 1	19 -	

į			and some				-	
Í	M.,	Sine.	Co-sine.	Tang.	Costang.	Secant.	Co-sec.	_1
	-0	9.76922	9,90796		10.13874	10.09204	10.23078	60
	1	76939	90787	86153	13847	09213	23061	59
	200	76957	90777	86179	13821	09223	23043	58
	3	76974 76991	90768 90759	86206 86232	13794 13768	09232 09241	23026 23009	57 56
	4 5	77009	90750	86259	13741	09250	22991	55
	5 6 7	77026	90741	B6285	13715	09259	22974	54
	7	77043	90731	86312	13688	09268	22957	53
	8	77061	90722	86338	13662	09278	22939	52
	9	77078	90713	86365	13635	09287	22922	51
l	10	9.77095	9.90704	Black College Co.		10,09296	10.22905	50
ı	11	77112	90694	86418	13582	09306	22888	49
l	12	77130	90685	86445 86471	13555 13529	09315 09324	22870 22855	48
ı	14	77147 77164	90676 90667	86496	13502	09333	22836	46
ı	15	77181	90657	86524	13476	09343	22819	45
I	16	77199	90648	86551	13449	09352	22801	44
ı	17	47216	90639	86577	13423		22784	43
ì	18	77233	90630	86603	13397	09370	22767	42
۱	19	77250	90620	86630	13370			41
١	20	9,77268	9.90611	9.86655		10.09389		40
ı	21	77285	90602	86683	13317	09398	22715	39
۱	22	77302	90592	86709	13291	09408	22698	38
I	23	77319	90583	86736	13264 13238		22681 22664	36
ı	25	77336 77353	90574 90565	86762 86789			22647	35
ı	26	77370						34
ı	27	77387	90546	86842	13158	09454		33
ı	28	77405	90537	86868		09463	22595	32
I	29	77422	90527	86894	13106	09473	22578	31
ſ	30	9.77439	9,90518	9.86921	10.13079	10.09482	10.22561	30
ı	31	77456			13053			29
ı	32	77473		86974				28
H	33	77190						27
i	34	77507 77524		87027 87052				26
ı	36	77541	90462	87079				04
ı	37	77558						23
ı	38	77575						22
i	39	77592						21
ı	40	9.77609	9.90424	9.87185	10.12813	10.09576	10.22391	20
ı	41	77626	90415	87211	12789	09585	22374	19
ı	42							
1	43		90396		12736	09604		
ı	44		90386	87290	12710			16
I	45			87317 87343			22306	15
ı	47	77727					2227	13
ı	48	77744						12
	49	77,761			12578		The second second	11
ı	50		THE RESIDENCE IN		-	Lamber Allerton	10.22222	10
Ì	51	77795	90320	87475	12525	09680	22205	9
ı	52	The second second				A STATE OF THE PARTY OF THE PAR		
Ì	53	77829			12473	09699	22171 22154	7
J	54		90292					5
į	55 56			87580			22138	3
1	57							1 3
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1	59	77930						
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ı	1	Co-sine	-	Co-tam				M
ļ	-	34.5.11		Mary Park	01			
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	-							111
M.	Sine.	Co-sine	I Tane	ICo torre	Samuel	I Co and		10
	The second second	The second second		Co-tang.		Co-sec.	-	1
0			The state of the s	10.12289	10.09765	The second second second	60	I
1	77963				09775	22037	59	1
2	77980			12236			58	A
34 5 6	77997					22003	57	
4	78013			12183		21987	56	H
5	78030				09813	21970	55	П
6	78047	90178	87869			21953	54	ı
7 8	78063			12105	09832	21937	53	П
8	78080	90159	87922	12078	09841	21920	52	ì
9	78097	90149				21903	51	ı
10	9.78113	9.90139	9.87974	10 19096	10.09861		50	1
11						21870		a
12		90120	100000000000000000000000000000000000000	11973	09880	21853	48	и
13				11947	09889	21837	47	н
14				-11921	09899			1
15		90091				21820		П
16						21803	45	П
		90082		11869		21787	44	И
17					09928	21770	43	1
18		The second second		11816		21754	42	П
19	_	90053	88210	11790	09947	21737	41	I
20	9.78280	9.90043	9.88236	10.11764	10.09957	10.21720	40	1
21 22	78296	90034	88262	11738	09966	21704	39	ı
22	78313	90024	88289	11711	09976	21687	38	н
23	78329	90014	88315	11685	09986	21671	37	н
24	78346	90005	88341	11659	09995	21654	36	а
24 25	78362	89995	88367	11633	10005	21638	35	п
26	78379	89985	88393	11607	10015	21621	34	и
27	78395	89976	88420	11580	10024	21605	33	н
28	78412	89966	88446	11554	10034	21588	32	п
27 28 29	78428	89956	88472	-11528	10044	21572	31	1
-23				And in case of the last of the	CORNER OF THE PARTY OF		200	1
30	9.78445	9.89947			10.10053		30	н
31	78461	89937	88524	11476	10063	21539	29	и
32	78478	89927	88550	11450	10073	21522	28	ı
33	78494	89917	88576	11424	10082	21506	27	н
34	78510	89908	88603	11397	10092	21490	26	п
35	78527	89898	88629	11371	10102	21473	25	п
36	78543	89888	88655	11345	10112	21457	24	и
37	78560	89879	88681	11319	10121	21440	23	и
38	78576	89869	88707	11293	10131	21424	22	н
39	78592	89859	88733	11267	10141	21408	21	ı
40	9.78609	9.89849	9.88759	10.11241	10.10151	10.21391	20	1
41	78625	89840	88786	11214	10160	21375	19	
42	78642	89830	88812	11188	10170	21358	18	
43	78658	89820	88838	11162	10180	21342	17	-
44	78674	89810	88864	11136	16190	21326	16	1
45	78691	89801	88890	11110	10199	21309	15	
46	78707	89791	88916	11084	10209	21293	14	
			88942	11058	10219		13	ı
47	78723	89781	88968	11032		21277		
48	78739	89771 89761	88994	11006	10229	21261	12	1
49	78756	Contract Con		THE RESERVE AND ADDRESS OF THE PERSON.	10239	The second line of the least		ı
50	9.78772	9.89752				10.31228	10	
51	78788	89742	89046	10954	10258	21212	9	
52	78805	89732	89073	10927	10268	21195	8	
53	78821	89722	89099	10901	10278	21179	7	
54	78837	89712	89125	10875	10288	21163	6	
55	78853	89702	89151	10849	10298	21147	5	
56	78886	89693	89177	10823	10307	21131	4	
57	78896	89683	89203	10797	10317	21114	3	
58	78902	89673	89220	10771	10327	21098	21	
59	78918	89663	89255	10745	10337	21082	654321	
60	78934	89653	89281	10719	10347	21066	0	1
	Co-sine.	-	Co-tang.	Tang.	Co-sec.	Secunt.	11	1
-	Co-Silie: 1	one.	oo-cang.	rang.	100-260	Lucanin	Name .	S
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148 Artificial Sines, Tang. and Sec. 38 Degrees.

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31.	Sine.	Co-sinc.	Tang.	Co-tang-	Secunt.	Cince.		
-0	9.78934	9.89653	9.89281	10.10719	10.19347	10.21066	60	
i	78950	89643	89307	10693	10357	21050	59	
	78967	89633	89333	10667	10367	21033	58	4
3	78983	89624	89359	10641	10376	21017	57	1
200 450 6	78999	89614	89385	10615	10386	21001	56	
3	79015		89411	10589	10396	20985	55	
6	79031	89594	89437	10563	10406	20969	54	
7	79047	89584	89463	10537	10416	20953	53	
8	79063	89574	89489	10511	10426	20937	52	
7 8 9	79079	89564	89515	10485	10436	20921	51	
10	9.79095	-	0.89541		10.10446		50	
11	79111		89567	10433	10456	20889	49	
10	79128		89593		10466	20872	48	
12	79144		89619		10476	20856	47	
14	79160		89645			20840	46	
15	79176		89671			20824	45	
16	79192		89697			20808	44	
17	79208		89723		10515	20792	43	
18	79224		89749		10525	20776	42	
19	79240		89775			20760	41	
		-	_			-		ı
20	9.79250		9.89801		10.10545	10.20744	40	
21	79272					20728		
22	79288					20712		
23	79304					20696		
24						20681		ı
25						20665		
26								
27	79367							
28								
29		_	90033	09965	10636	20601	C Decords	п
30	9.7941.	9.89354			10.10646	10.20584	30	п
-31	7943	1 89344	9008	09914	10656	20569	29	ı.
32	7944	89334	90119	09888	10666	20553	28	в
33	7946				10676	20537	27	п
34	7947		90164	09836	10686	20522		ш
35	7949	89304	90190		10696	20506	25	п
36	7951	89294	90216					и
37	7952				10716	20474	23	1
38	7954	2 89274	90268	0973	10726	20458	3 22	ı
39	7955	8 89264	90294	4 0970	10736	20449	21	
40	9.7957	3 9.89254	9.90320	10.09680	10.10746	10.20427	20	1
41					10756			1
45				0962	10767			
43	7962			0960				1
44								
40								
40								1
47								
48								
4				3 0944				
-50				8 10.0942		10.20269		
						of the second second second		
5		CONTRACTOR OF THE PARTY OF THE						
5							2	1
	A CONTRACTOR		of District Control				9 6	
5.								
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5			COLUMN TO SERVICE STATE OF THE PARTY OF THE				13/ 5	I
6								3
	Co-sir	e.   Sind	e.  Co-t	ang. Ta	uk. Loo-	sec.   Sec	ane la	a.
(e'-		STATE OF THE PERSON.			Charles and the Control of the Contr	-		
	The state of the s		100	4 Deg	PEVDR			

ŧ	-		_	-			0		4
r	M.	Sine.	Coone	Tang.	Co-time	Secure.	Co-sec.		
ı	0	9,79887	9,850,50	9.90837	10.09160	1410930	10.20113	60	
ı	2 3	79903	85040	90863	09137	11960	20097	59	
ı	2	79918	80000	90009	09111	10000	20082	58	
i	2	70050	80000	90914	(90060	10001	20000	56	
1	5 6	79965	88990	90966	09034	11001	90000	55	
ı	6	79982	88989	90993	09008	11011	20010	54	
ı	7	79996	88978	91018	08982	11023	20004	53	
ı	8	80012	88968	91043	08957	11032	19988	52	
ı	9	80027	88958	91969	08931	11042	19973	51	
ı	10	9,80043	9.88948	9.91095	10.08905	10.11052	10.19957	50	
ı	11	80058	88937	91121	08879	11063	19942	49	
ı	12	80074	88927	91147	08853	11073	19926	48	
1	13	80089 80105	88917	91172	08828	11083	19911	47	
ı	14	80103	88906 88896	91198 91224	08776	11104	19895 19880	46	
ı	16	80136	88886	91250	08750	11114	10854	45	100
ı	17	80151	88875	91276	08724	11125	19849	43	800
N	18	80166	88865	91301	08699	11135	19834	42	
I	19	80182	88855	91327	08673	11145	19818	41	
Н	20	9,80197	9.88844	9.91353	10.08647	10.11156	10.19803	40	100
Н	21	80213	88834	91379	08621	11166	19787	39	
ı	21 22	80228	88824	91404	08596	11176	19772	38	
I	23	80244	88813	91430	08570	11187	19756	37	100
ı	24	80259	88803	91456	08544	11197	19741	36	
ı	25 26	80274			08518	11207	19726	35	
I	20	80290 80305	88782	91507	08493 08467	11218	19710	34	
I	27 28	80320	88772 88761	91533 91559	08441	11228 11239	1969s 19680	32	
ı	.29	80336		91585	08415	11249	19664	31	
ı	30	9.80351		9.91610			10.19649	30	
Н	31	£0366	88730	91636	08364	11270	19634	30	
N	32	80382	88720	91662	08338	11280	19618	28	
II	33	80397	88709	91688	08312	11291	19603	27	800
H	34	80412	88699	91713	08287	11301	19588	26	
И	35	80428	88688	91739	08261	11312	19572	25	100
ı	36	80443	38678	91765	08235	11322	19557	24	100
П	37	80458	88668	91791	08209	11332	19542	23	900
u	38	80473 80489	88657 88647	91816 91842	08184 08158	11343 11353	19527 19511	22	200
П	No.				-		The second second	21	
H	40	9.80504		9.91868	10.08132 08107	11374	19482	20	
П	42	80534		91919	08081	11385	19466	18	2000
1	43	80550	The second second	91945	08055	11395	19450	17	
	44	80565	88594	91971	08029	11406	19435	16	751
	45	80580	88584	91996	08004	11416	19420	15	1
	46	80595	88573	92022	07978	11427	19405	14	100
	47	80610	88563	92048	07952	11437	19390	13	120
1	48	80625	88552	92073	07927	11448	19375	12	11.16
	49	80641	88542	92099	07901	11458	19359	11	I
1	50	9.80656	9.88531		10.07875	10.11469		10	1
1	51 52	80671	88521	92150	07850 07824	11472 11490	19329 19314	9 8	
-	53	80686 80701	88510 88499	92176 92202	07824	11501	19299	7	100
	54	80716	88489	92227	07773	11511	19284	7	100
ا	55	80731	88478	92253	07747	11522	19269	5	IN
ا	56	80746	88468	92279	07721	11532	19254	4	18
	57	80762	88457	92304	07696	11543	19238	5439	25
	58	80777	88447	92330	07670	11553	19323	3	-
	59	80792	88436	92356	07644			3 7	No.
	60	80807	88425	92381	07619	900	-	1.10	1.11
1	10	Co-sine.	Sine.	Co-tang	Tang	Co-se	C. Secu	ALC: N	-1.5

150 Artificial Sines, Tang. and Sec. 40 Degrees.

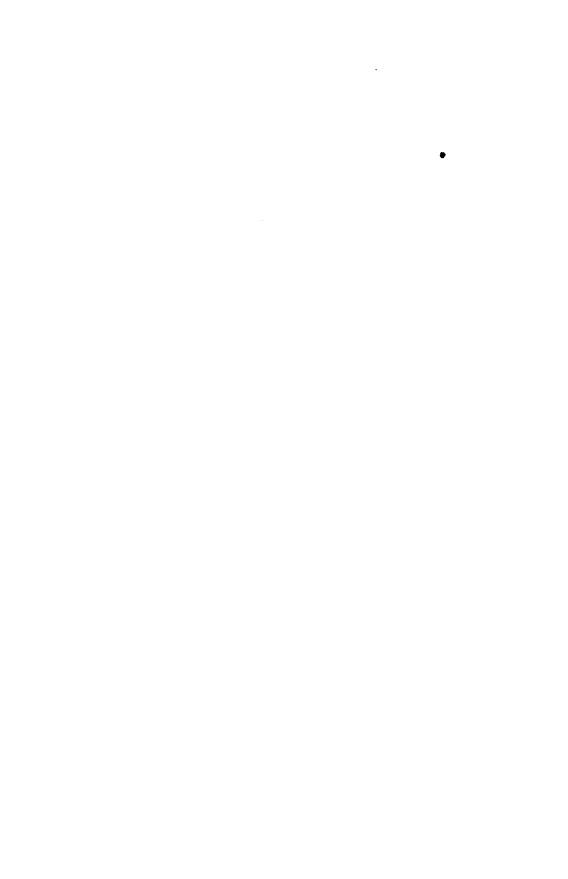
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-	M.	Sine.	Co-sine.	Tang.	Co-tang.	Secunt.	Co-sec.	1 1	1
	-	9.80807	9:88425	9.92381	10.07619	10.11575	10.19193	60	
			88415	92407		11585		59	1
۱			88404	92433		11596	19163	58	-
ı	25.03	80852	88394	92458	07542	11606	19148	57	
i			88383	92484	07516		19133	56	
	5 6 7	80882	88372	92510			19118		
ı	-	80897	88362	92535					L
П	2	80912		92561			19088	53	
	8	80927		92587			19073	52	1
ı	9	80942	88330	92612	07388	11670	19058	51	
ı			9.88319		10 07000			_	
۱	10	9.80957	88308		10.07362			50-	
П	11			92663 92689		11692	19028	49	
Ш	19		88298			11702	19013	48	п
	13		88287	92715			18998	47	100
И	14		88276				18983	46	.0
۱	15		88266	92766		11734	18968	-	1
П	16			92792				44	
	17		88244	92817	07183		18939	43	100
	18			92843	07157	11766	18924	42	
Ш	19		88323	92868			18909	41	
N	20	9.81106		9.92894	10.07106	10.11788	10.18894	40	
Ш	21	81121	88201	92920	07080	11799	18879	39	
	22	81136		92945		11809	18864	38	1
	23	81151	88189	92971	07029	11820			
N	24	81166	88169	92996			18834		1
ı	25	81180	88158	- 93022			18820	35	
	26	81195	88148	93048	06952		18805		
I	27	81210	88137	93073	06927	11863	18790		
	27	81225	88126	93099	06901	11874	18775		1
I	29	81240	88115	93124	06876			31	
	30	9.81254	9.88105				10.18746		
H	31		88094	93175	06825	11906			1
	32		88083	93201	06799		18716		
	33	81299	88072	93227	06773	11928	18701	27	
U	34		88061	93252	06748	11939	18686	26	1
1	35	81328		93278	06722	11949	18672	25	1
	36		88040	93303	06697	11960	18657	24	
	37	81358	88029	93329	06671	11971		99	1
ı	38		88018	93354	06646		18628	00	1
U	39		88007	93380		11993	18613	21	1
	40		9.87996					post	
				02424	10.06594			20	
Ü	41	81417	87985	93431	06569	12015	18583	19	1
	42	81431	87975	93457	06543	12025		18	1
H	43	81446	87964 87953	93482	06518		18554	17	10-
	44	81461 81475	97040	93508	06492	12047	18539	16	1
	45		87942	93533	06467	12058	18525	15	
	46	81490	87931	93559	06441	12069	18510	14	
	47	81505	87920	93584	06416	12080	18495	13	1
	48	81519	87909 87898	93610	06390	12091	18481	12	
	49	81534	The Person of th	93635	06364	12102	18466	11	
1	50	9.81549	9.87887	9.93661	10.06339		10.18451	10	1
6	51	81563	87877	93687	06313	12123	18437	9 8	
	52	81578	87866	93712	06288	12134	18422	8	1
i	53	81592	87855	93738			18408	7	1
	54	81607	87844	93763	06237	12156	18393	6	1
	55 56	81622	87833	93789	06211	12167	18378	5	1
	56	81636	87822	93814	06186	12178	18364	4	
1	57	81651	87811	93849	06160	12189	18349	3	1
	- 58	81665	87800	93865	06135	12200	18335	2	-
1	59	81680		93891	06103	12211	18330	1	0
1	60	81694		9391		1555			1
	-	Co-sine.		Co-tan					1
ğ		Co-suic-	Dillici	Debles	51			-	-
			COLUMN TO A	40	Degre	283			

33				-					Æ
H	M	Sine.	Co-sine.	Tang.	Co-tang.	Secant.	Co-sec.		
ı		the second second			The second second			-	100
ı	0	9.81694	9.87778	9.93916		10.12222	10.18306	60	
П	1	81709		93942	06058	12233	18291	59	
II	23	81723	87756	93967	06033	12244	18277	58	200
Ц	3	81738	87745	93993	06007	12255	18262	57	9
П	4	81752	87734	94018	05982	12266	18248	56	100
И		81767	87723	94044		12277	18233	55	
Ц	5	81781		94069	05931	12288	10233		
1			87712				18219	54	
П	-7	81796	87701	94095	05905	12299	18204	53	
4	8	81810	87690	94120	05880	12310	18190	52	0.0
I	9	81825	87679	94146	05854	12321	18175	51	200
I	10	9.81859	9.87668	0.04171	10.05829		10.18161	1	10
Н								50	
I	11	91854	87657	94197	05803	12343	18146	49	77
II	12	81868	87646	94222	05778	12354	18132	48	100
H	13	81882	87635	94248	05752	12365	18118	47	100
Н	14	81897	87624	94273	05727	12376	18103	46	4.
Ш	15	81911	87613	94299	05701	12387	18089	45	
Н	16	81926	87601	94324	05676	12399	18074	44	
۱		81940							
۱	17		87590	94350	05650	12410	18060	43	1
	18	81954	87579	94375	05625	12421	18046	42	1
I	19	81969	87568	94401	05599	12432	18031	41	4
I	20	9.81983	9.87557	9.94426	10.05574	10.19443	10.18017	40	112
۱	21	81998	87546	94452	05548	12454	18002	39	
		82012							100
۱	22		87535	94477	05523	12465	17988	38	
1	23	82026	87524	94503	05497	12476	17974	37	
II	24	82041	87513	94528	05472	12487	17959	36	
1	25	82055	87501	94554	05446	12499	17945	35	100
И	26	82069	87490	94579	05421	12510	17931	34	100
Ц	27	82084	87479	94604	05396	12521	17916	33	e con
II	28	82098		94630	05370	12532	17902	32	2
II	29	82112	87457	94655		12543		31	
И	-				05345	A STATE OF THE PARTY OF THE PAR	17388		100
Ш	30	9.82126	9.87446	9.94681	10.05319	10.12554	10.17874	30	
u	31	82141	87434	94706	05294	12566	17859	29	91
H	32	82155	87423	94732	05268	12577	17845	28	
II	33	82169	87412	94757	05243	12588	17831	27	100
U	34	82184	87401	94783	05217	12599	17016	26	100
Ħ	34						17816		
II	35	82198	87390	94808	05192	12610	17802	25	
Ц	36	82212	87378	94834	05166	12622	17788	24	
اا	37	82226	87367	94859	05141	12633	17774	23	11 /
	38	82240	87356	94884	05116	12644	17760	22	1
	39	82255	87345	94910	05090	12655	17745	21	V
ا		THE RESERVE		THE RESERVE OF THE PERSON NAMED IN				Date of Land	1
۱	40	9.82269	9.87334	2.94935	10.05065			20	15
H	41	82283	87322	94961	05039	12678	17717	19	100
I	42	82297	87311	94986	05014	12689	17703	18	100
	43	82311	87300	95012	04988	12700	17689	17	
ij	44	82326	87288	95037	04963	12711	17674	16	10
	45	82340	87277	95062		12723	17660	15	1
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I	46	82354	87266	95088		12734	17646	14	1
N	47	82368	87255	95113		12745	17632	13	
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1	A COLUMN		90863	09137	10960	20097		я
			90889				59	
3	79918					20082	58	п
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5	79965	88999	90966	09034	11001	20035	55	
6	79982	88989	90992	09008	11011	20019	54	
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				00937			52	н
9	80027	88958	91069	08931	11042	19973	51	и
10	9.80043	9.88948	9.91095	10.08905	10.11052	10.19957	50	
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13	80089	The State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the S	91172	08828		19911		
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14			91198		11094	19895	46	п
15		88896	91224	08776	11104	19880	45	п
16	80136	88886	91250	08750	11114	19864	44	
17	80151	88875	91276	08724	11125	19849	43	1
18		88865	91301	08699	11135	19834	42	1
19		88855	91327	08673	11145	19818	41	1
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21	80213	88834	91379	08621	11166	19787	39	1
22	80228	88824	91404	08596	11176	19772	38	
23	80244	88813	91430	08570	11187	19756	37	1
24		88803	91456	08544	11197	19741	36	и
25		88793	91482	08518	11207	19726	35	
26		88782	91507	08493	11218	19710	34	ш
27	80305	88772	91533	08467	11228	19695	33	и
28		88761	91559	08441	11239	19680	32	и
.29	80336	88751	91585	08415	11249	19664	31	
-30	9.80351	9.88741	991610	10 08390	10.11259	10 19649	30	ш
31	80366	88730	91636	08364	11270	19634	29	ı
				08338	11280	19618	28	
32	80382	88720	91662					
33	80397	88709	91688	08312	11291	19603	27	v
34	80412	88699	91713	08287	11301	19588	26	
35	80428	88688	91739	08261	11312	19572	25	ш
36	80443	88678	91765	08235	11322	19557	24	
37	80458	88668	91791	08209	11332	19542	23	и
38	80473	88657	91816	08184	11343	19527	22	н
	80489	88647	91842	08158	11353	19511	21	
39	The second second	_					_	
40	9,80504	9.88636			10.11364		20	1
41	80519	88626	91893	08107	11374	19482	19	L
42	80534	88615	91919	08081	11385	19466	18	
43	80550	88605	91945	08055	11395	19450	17	
44	80565	88594	91971	08029	11406	19435	16	
	80580	88584	91996	08004	11416	19420	15	
45			92022	07978	11427	19405	14	1
46	80595	88573						4
47	80610	88563	92048	07952	11437	19390	13	
48	80625	88552	92073	07927	11448	19375	12	1
49	80641	88542	92099	07901	11458	19359	11	1
50	9.80656	9.88531	9.99195	10.07875	10.11469	10.19344	10	1
51	80671	88521	92150	07850	11472	19329		1
				07824	11490	19314	9	1
52	80686	88510	92176		11501		7	
53	80701	88499	92202	07798		19299	_	
54	80716	88489	92227	07773	11511	19284	0	11
55	80731	88478	92253	07747	11522	19269	5	1
56	80746	88468	92279	07721	11532	19254	4	
57	80762	88457	92304	07696	11543	19238	3	
58		88447	92330	07670	11553	19323	9	
00	80777		92356	07644	11564	19208	1	
59	80792	88436				19193	6543910	1
60	80807	88425	92381	07619	11575		-	1
1	Co-sine.	Sine.	Co-tang.	Tang.	Co-sec.	Secunt,	M.	W
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G	0	9.84177	9.85693		10.01516		10.15823	60	
	1	84190	85681	98509	01491	14319	15810	59	ı
	23455789	84203	85669	98534	01466	14331	15797	58	
п	3	84216	85657	98560	01440	14343	15784	57	
п	4	84229	85645	98585	01415	14355	15771	56	
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	7	84269	85608	98661	01339		15731	53	ı
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и	.9	81295	85583	98711			15705	51	ı
15	10	9.84308	9.85571	9.98737	10.01263	10.14429		50	ı
	11	84321		98762	01238	14441	15679	49	ı
	12	84334		98787	01213	14454	15666	48	ı
	13	84347	85534	98812				47	ı
	14	84360	85.522	98838			200,00	46	ı
	15	84372		98863				45	п
	16	84385 84398		98888 98913		14503 14515		43	
	18	84411		98939				42	1
	19	84424						41	
	20	9.81437					10.15563	40	
	21	84450						39	
10	21 22	84463						38	ı
10	23	84476				14589	15524	37	ш
13	24	84489	85399		00910	14601	15511	36	N
B	25	84502						35	ı
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ĸ	28 29	84540						32	ı
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1	43	84733	85162					17	I
1	44	84745						16	1
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1	50	9.84822		9.9974			6 10.15178	10	1
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